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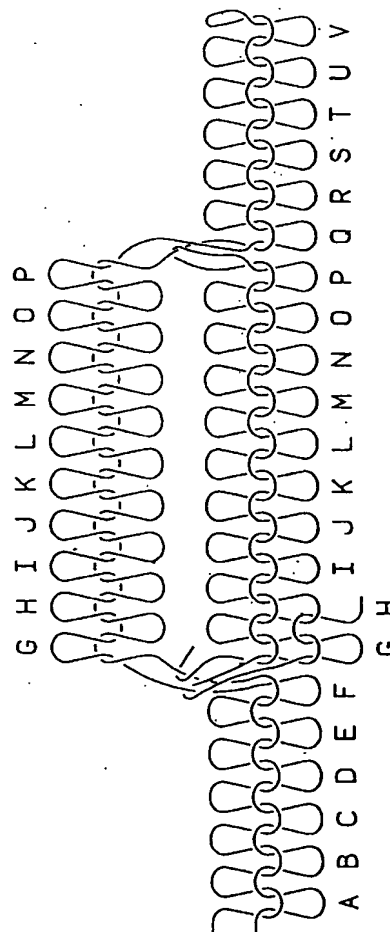
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54 **Knitted fabric integrally knitted with an additional pocket and the method of integrally knitting them.**

57 A method of composing a knitted fabric integrally with an additional pocket by sequential knitting processes comprising forming an extended knit fabric for the pocket by branching the extended knit fabric from a base knit fabric; forming an additional pocket by composing the base knit fabric and pocket-forming knit a fabric in a state in which lateral sides of the pocket-forming knit comprising said extended knit fabric is linked with the base knit fabric; such that the superficial knit composition of the pocket-forming knit fabric is composed in an identical state to the superficial knit composition of the base knit fabric on which the pocket is formed.

Fig. 2



EP 0 508 712 A1

BACKGROUND OF THE INVENTION

The presenting invention relates to a method of integrally composing a knitted fabric integrated with an additional pocket by operating a flat knitting machine to integrally form an additional pocket in the course of executing those processes for composing body part of a knitted wear like a sweater or a cardigan for example.

Conventionally, when providing an additional pocket on the body part of a knitted wear, initially, a knitter prepares a pocket-shaped knitted fabric, and then forms a pocket by combining the prepared pocket-shaped knitted fabric with the knitted base fabric at a desired location by applying a sewing process.

Normally, the periphery of a knitted fabric prepared for composing a pocket is manually sewn on the body part of a knitted wear. Nevertheless, peripheral portions of the knitted fabric prepared for composing a pocket is easily twined and incurs much inconvenience to handle it, and yet, easily incurs deformation. Because of these reasons, conventionally, it takes much time and consumes much labor to properly sew the prepared knitted fabric before forming a pocket on the desired knitted wear. In other words, these conventional processes significantly lower productivity.

In particular, when forming a pocket with a knitted fabric bearing patterns, it is quite difficult for the sewer to correctly match patterns between the knitted base fabric and the sewn pocket, and therefore, the above-cited symptoms obviously appear as critical problem to solve.

To solve those problems cited above, the Applicant of the invention previously proposed a method of composing such a knitted fabric added with a pocket, where the proposed method comprises those steps described below. Initially, a knitted fabric available for the front and rear body parts is knitted up. When the knitting line arrives at a predetermined region for the provision of a pocket, a certain number of loops engaged with those knitting needles corresponding to the pocket-forming region are locally branched in order to form the bottom of a pocket, and then the front part of the pocket is knitted as of the condition in which side edges of the front-side pocket fabric knitted upward from the bottom of the pocket are integrally knitted with the front fabric, and in addition, a region knitted in the rib form is designated for the upper position of the pocket by continuously being formed in succession to the front body part.

On the other hand, basically, in order to properly form predetermined design and exert own function, aperture of a pocket provided for a knitted wear needs to be reinforced by means of a rib-knitting for example. However, when composing such a knitted fabric combined with a specifically knitted fabric available for composing a pocket according to the method previously proposed by the Applicant of the invention, the

exterior of the pocket-forming knitted fabric consists of the right-side composition, whereas the knitted base fabric available for the body part concealed inside of the pocket-forming knitted fabric solely consists of the lining composition.

In consequence, the knitted base fabric concealed inside of the right-side knitted fabric designated for a pocket making up part of a complete knit wear added with a pocket turns into the lining composition. As a result, when a consumer wears a knit consisting of the knitted fabric cited above, the knit visually exposes the region that turned into the lining composition along the upper aperture of the pocket. This in turn generates uncomfortable looking of the knit itself to merely result in the degraded commercial value.

Furthermore, when the knitted base fabric concealed inside of the right-side knitted fabric of the pocket turns into the lining composition as mentioned above, the lining composition itself recesses, and as a result, the right-side knitted fabric making up the pocket falls in the recessed domain. This in turn nullifies voluminous appearance characteristic of the added pocket itself.

Therefore, the invention has been achieved to fully solve those technical problems cited above. The object of the invention is to provide a novel method of composing a knit integrated with an additional pocket filled with voluminous appearance without lowering productivity at all.

SUMMARY OF THE INVENTION

To securely achieve the above object, the invention provides a novel method of composing a knitted fabric integrated with an additional pocket. The method embodied by the invention characteristically comprises those sequential steps including the following:

In order to continuously compose a knitted base fabric and the corresponding knitted fabric solely available for composing a pocket by operating a flat knitting machine which is furnished with two pair of needle beds in the vertical direction, initially, an extended knit region of a knitted fabric solely available for composing a pocket is formed by ranching it out of the knitted base fabric available for composing the body part. Next, the knitted base fabric is conjunctionally knitted with the other knitted fabric solely available for composing a pocket as of the state in which lateral part of the pocket-composing fabric knitted from the extended knit fabric is linked with the knitted base fabric before forming a pocket. Simultaneously, superficial knit composition of the pocket-composing knitted fabric is materialized to be exactly identical to the superficial knit composition of the knitted base fabric by way of correctly matching the region predetermined for the provision of the pocket.

Concretely, the method embodied by the invention composes a knitted base fabric corresponding to

the body part of a sweater of a cardigan by operating a flat knitting machine.

Next, as soon as the knitted base fabric available for composing the body part is knitted up to a predetermined position in order to form a pocket, the operating flat knitting machine branches out specific loops engaged with those knitting needles in a region corresponding to the predetermined width of a pocket. This in turn completes formation of the extended portion of the pocket-composing knitted fabric.

Next, the flat knitting machine sequentially composes a knitted fabric solely available for the body part and the other knitted fabric corresponding to the pocket-forming region as of the state in which both lateral sides of the extended knit fabric are linked with the knitted fabric available for composing the body part, thus eventually pouching the linked knit fabrics into a pocket.

In the event that the introduced flat knitting machine is furnished with a pair of needle beds disposed in vertical direction by way of being opposite from each other back and forth, and yet, when either of the top and bottom needle beds is operated to compose a knitted fabric available for composing the body part, then, identical superficial compositions can be materialized for those knitted fabrics available for composing the body part and the pocket by composing the pocket-forming knitted fabric from the extended knit fabric by operating the other needle bed.

On the other hand, if the introduced flat knitting machine were provided with a pair of needle beds which are disposed in opposition from each other in the front and rear positions, and yet, when the knitted fabric solely available for composing the body part arrives at a predetermined position designated for the formation of a pocket, the method embodied by the invention shifts the knitted fabric available for composing the body part to every other needle of either of a pair of the needle beds disposed at an end, and then applies vacant needles to compose the knit fabric corresponding to the pocket region. In consequence, exactly identical superficial composition can be materialized for those knitted fabrics available for composing the body part and the pocket part.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 schematically designates the front view of a knitted fabric available for composing part of a knit wear added with a pocket;

Fig. 2 is a cross-sectional view of the knitted fabric shown in Fig. 1 taken on line X through X;

Fig. 3 presents a list of symbols explanatory of knit composing courses;

Fig. 4 through Fig. 88 are respectively explanatory of knit composing courses available for integrally forming a pocket with body part according to the first embodiment of the inven-

tion;

Fig. 89 through Fig. 173 are respectively explanatory of knit composing courses available for integrally forming a pocket with body part according to the second embodiment of the invention;

Fig. 174 is an organization chart of a knit composition corresponding to the knitted fabric shown in Fig. 2 composed by applying the third embodiment of the invention;

Fig. 175 through Fig. 203 are respectively explanatory of knit composing courses available for integrally forming a pocket with body part according to the third embodiment of the invention;

Fig. 204 through Fig. 232 are respectively explanatory of knit composing courses available for integrally forming a pocket with body part according to the fourth embodiment of the invention;

Fig. 233 is an organization chart of a knit composition corresponding to the knitted fabric shown in Fig. 2 composed by applying the fifth embodiment of the invention;

Fig. 234 through Fig. 261 are respectively explanatory of knit composing courses available for integrally forming a pocket with body part according to the fifth embodiment of the invention;

Fig. 262 through Fig. 289 are respectively explanatory of knit composing courses available for integrally forming a pocket with body part according to the sixth embodiment of the invention;

Fig. 290 is an organization chart of a knit composition corresponding to the knitted fabric shown in Fig. 2 composed by applying the seventh embodiment of the invention;

Fig. 291 through Fig. 320 are respectively explanatory of knit composing courses available for integrally forming a pocket with body part according to the seventh embodiment of the invention;

Fig. 321 through Fig. 350 are respectively explanatory of knit composing courses available for integrally forming a pocket with body part according to the eighth embodiment of the invention;

Fig. 351 is an organization chart of a knit composition corresponding to the knitted fabric shown in Fig. 2 composed by applying the ninth embodiment of the invention;

Fig. 352 through Fig. 366 are respectively explanatory of knit composing courses available for integrally forming a pocket with body part according to the ninth embodiment of the invention;

Fig. 367 through Fig. 383 are respectively explanatory of knit composing courses available for integrally forming a pocket with body part according to the tenth embodiment of the invention;

Fig. 384 is an organization chart of a knit composition corresponding to the knitted fabric shown in Fig. 2 composed by applying the eleventh embodiment of the invention;

Fig. 385 through Fig. 392 are respectively explanatory of knit composing courses available for integrally forming a pocket with body part according to the twelfth embodiment of the invention.

natory of knit composing courses available for integrally forming a pocket with body part according to the eleventh embodiment of the invention; and Fig. 393 through Fig. 400 are respectively explanatory of knit composing courses available for integrally forming a pocket with body part according to the twelfth embodiment of the invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The First Embodiment

Referring now to the accompanying drawings, the method of integrally knitting a base knit with a pocket-composing knit fabric according to the invention is described below.

The first embodiment of the invention forms an additional pocket on local domain 1 of a knitted fabric which is supposed to be turned into a cardigan like the one shown in Fig. 1 for example. To implement the knitting operation, a flat knitting machine is made available, which is characteristically furnished with the conventionally called "four-piece needle beds" comprising two pairs of needle beds, where each pair of needle beds storing a number of knitting needles are disposed in opposition from each other in the "/\" like formation by way of causing each knitting needle to slidably move back and forth. These two pairs of needle beds are respectively disposed in the up and down locations.

Fig. 2 is a cross-sectional view of the knitted fabric taken on line X through X. Fig. 3 presents a chart explanatory of those symbols for designating knit composing courses shown in Fig. 4 on.

The reference character FU shown to the left of the knitting courses in the accompanying drawings including Fig. 4 on designates a needle bed which is disposed on the top side of the front position. The reference character FD designates a needle bed which is disposed on the bottom side of the front position. The reference numeral BU designates a needle bed which is disposed on the top side of the rear position. The reference numeral BD designates a needle bed which is disposed on the bottom side of the rear position. Those arrowed directions shown to the right of the knitting courses indicate the loop knitting direction, in other words, the feeder moving direction. Functional operation of the flat knitting machine executing the method embodied by the invention is described below.

First, a feeder 3 is shifted to the right of the knitting course shown in Fig. 4. Next, when the feeder 3 is shifted to the left of the knitting course shown in Fig. 5, knitting yarns are supplied to those knitting needles A through V of the needle bed FD disposed on the bottom side of the front position, thus permitting these needles to form loops in the operated knitting courses.

Those sequential knitting processes shown in Figures 4 and 5 are repeatedly executed in order to compose a front body knit domain 7 in the upward direction from the bottom.

When a knitting process is executed at a position at which the bottom of a pocket 2 is formed, a "split knit" process is executed by engaging those loops engaged with those knitting needles J through M of the needle bed FD disposed on the bottom side of the front position by way of dividing these loops into those knitting needles J through M of the needle bed BD disposed on the bottom side of the rear position.

A predetermined number of loops are then formed on the way of a knitting process shown in Fig. 7 by feeding yarns to those knitting needles J through M of the needle bed FD.

Next, a pair of yarn feeders 3 and 5 are respectively shifted to the left of the knitting course shown in Fig. 9 to cause the supplied yarns to intersect each other. Next, the feeder 3 is shifted to the right of the knitting course shown in Fig. 10, and then the feeder 5 is shifted to the right of the knitting course shown in Fig. 11.

When a knitting course shown in Fig. 12 is activated, a "divisional increasing" process is again executed by engaging a pair of loops engaged with those knitting needles I and N of the needle bed FD disposed on the bottom side of the front position with those corresponding knitting needles I and N of the needle bed BD disposed on the bottom side of the rear position by dividing these loops into those knitting needles I and N. Next, when the knitting course shown in Fig. 13 is activated, a predetermined number of loops are formed by feeding knitting yarns from the feeder 5 to those knitting needles I through N of the needle bed FD. Next, when the knitting course shown in Fig. 14 is activated, those loops engaged with the knitting needles I through N of the needle bed BD are transferred to those corresponding knitting needles i through n of the needle bed FU disposed on the top side of the front position.

When the following knitting course shown in Fig. 15 is activated, the feeder 3 shifts itself to the left of the knitting course. This causes knitting yarns to be delivered to those knitting needles V through O of the needle bed FD and those knitting needles n through i of the needle bed FU, and as a result, loops are formed. Then, when the knitting course shown in Fig. 16 is activated, those loops engaged with the knitting needles i through n of the needle bed FU are transferred to those knitting needles I through N of the needle bed BD.

When the following knitting course shown in Fig. 17 is activated, the feeder 3 is transferred from the position shown in Fig. 15 to the right, and likewise, the other feeder 5 is also transferred from the position shown in Fig. 13 to the right to cause knitting yarns supplied to these feeders 3 and 5 to intersect with

each other. Next, when the knitting course shown in Fig. 18 is activated, the feeder 3 is shifted to the left to cause those knitting needles H through A of the needle bed FD to respectively form loops. When the knitting course shown in Fig. 19 is activated, the feeder 5 is shifted to the left. Next, when the knitting course shown in Fig. 20 is activated, a "divisional increasing" process is again executed by engaging those loops engaged with the knitting needles H and O of the needle bed FD disposed on the bottom side of the front position after dividing these loops into those knitting needles H and O of the needle bed BD disposed on the bottom side of the rear position. Next, when the knitting course shown in Fig. 21 is activated, the feeder 5 feeds knitting yarns to those knitting needles H through O of the needle bed FD to form loops. Next, when the knitting course shown in Fig. 22 is activated, those loops engaged with the knitting needles H through O of the needle bed BD are respectively transferred to those corresponding knitting needles h through o of the needle bed FU.

Next, when the knitting course shown in Fig. 23 is activated, the feeder 3 is shifted to the left to cause knitting yarns to respectively be delivered to those knitting needles A through G of the needle bed FD and those knitting needles h through o of the needle bed FU to form loops. Next, when the knitting course shown in Fig. 24 is activated, those loops engaged with the knitting needles h through o of the needle bed FU are respectively transferred to those corresponding knitting needles H through O of the needle bed BD.

The flat knitting machine related to the invention repeatedly executes those knitting courses shown in Fig. 12 through Fig. 19 and Fig. 20 through Fig. 27 before eventually expanding the width of the pocket 2 to a predetermined range of width H corresponding to the width between the needle G and the needle P of the needle bed BD shown in Fig. 25 for example. While the knitting mode shown in Fig. 25 is present, initially, the feeder 3 is shifted to the left from the state shown in Fig. 23, and likewise, the other feeder 5 is also shifted to the left from the state shown in Fig. 21 to cause knitting yarns engaged with these feeders 3 and 5 to intersect with each other. Next, when the knitting course shown in Fig. 26 is activated, the feeder 3 is shifted to the right to cause those knitting needles Q through V of the needle bed FD to respectively form loops. When the knitting course shown in Fig. 27 is activated, the feeder 5 is shifted to the right.

When the knitting course shown in Fig. 28 is activated, the feeder 5 is shifted to the left to feed knitting yarns to those knitting needles P through G of the needle bed FD to feed loops. Next, when the knitting course shown in Fig. 29 is activated, those loops engaged with the knitting needles H through O of the needle bed BD are respectively transferred to those knitting needles g through p of the needle bed FU. When the following knitting course shown in Fig. 30 is

activated, the feeder 3 feeds knitting yarns to those knitting needles g through p of the needle bed FU to have them form loops.

Next, when the knitting course shown in Fig. 31 is activated, those loops formed with yarns fed from the feeder 4 and engaged with those knitting needles g through p of the needle bed FU are respectively transferred to those corresponding knitting needles G through P of the needle bed BD. When the knitting mode shown in Fig. 32 is entered, the feeder 3 is shifted from the state shown in Fig. 30 to the right, and likewise, the feeder 5 is shifted from the state shown in Fig. 28 to the right to cause those yarns fed from these feeders 3 and 5 to intersect each other. When the knitting course shown in Fig. 33 is activated, the feeder 3 is shifted to the left to feed knitting yarns to those knitting needles F through A of the needle bed FD to have them respectively form loops. When the knitting course shown in Fig. 34 is activated, the feeder 5 is shifted to the left.

Next, when the knitting course shown in Fig. 38 is activated, those loops engaged with the knitting needles g through p are respectively transferred to those knitting needles G through P of the needle bed BD. When the knitting course shown in Fig. 39 is activated, the feeder 3 is shifted from the state shown in Fig. 37 to the left, and likewise, the other feeder 5 is also shifted from the state shown in Fig. 35 to the left to cause those yarns fed from these feeders 3 and 5 to intersect each other. Next, when the knitting course shown in Fig. 4 is activated, the feeder 3 is shifted to the right to feed knitting yarns to those knitting needles Q through V of the needle bed FD to have them respectively form loops. When the knitting course shown in Fig. 40 is activated, the feeder 5 is shifted to the right.

Next, when the knitting course shown in Fig. 42 is activated, the feeder 5 is shifted to the left to feed knitting yarns to those knitting needles P through G of the needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 43 is activated, those loops engaged with the knitting needles G through P of the needle bed BD are respectively transferred to those knitting needles g through p of the needle bed FU. Next, when the knitting course shown in Fig. 44 is activated, the feeder 3 feeds knitting yarns to the knitting needles g through p of the needle bed FU to have them respectively form loops.

Next, when the knitting course shown in Fig. 45 is activated, those loops engaged with the knitting needles g through p of the needle bed FU are respectively transferred to those knitting needles G through P of the needle bed BD.

The flat knitting machine related to the invention repeatedly executes those knitting courses shown in Fig. 32 through Fig. 45 before eventually composing straight portion of a pocket. It should be understood that, as indicated by "Y" and "Z" shown in Fig. 2, lat-

eral edges on both sides are linked with each other in the state in which knitting yarns intersect each other in connection with the front body knit domain 7.

When the knitting mode shown in Fig. 46 is entered, the feeder 3 is shifted from the state shown in Fig. 44 to the right, and then, the feeder 5 is also shifted from the state shown in Fig. 42 to the right to cause knitting yarns fed from these feeders 3 and 5 to intersect each other. Next, when the knitting mode shown in Fig. 47 is entered, the feeder 5 is shifted to the left before externally being placed. In the same way, when the knitting mode shown in Fig. 48 is entered, the other feeder 3 also feeds knitting yarns to the knitting needles F through A of the needle bed FD, and then, while forming loops, the feeder 3 is also placed outside of the knitting course.

Next, when the knitting course shown in Fig. 49 is activated, another feeder 6 is introduced in order to feed specific yarns for reinforcing the aperture region 8 of the pocket 2, and then loops are respectively formed by those knitting yarns G through P of the needle bed FD with the supplied reinforcing yarns. It should be understood that the formation of the loops with the reinforcing yarns shown in Fig. 49 can be deleted.

Figures 50 through 67 respectively designate those knitting courses available for the formation of rubber knit fabrics respectively composing the aperture 8 of the pocket 2.

Concretely, when the knitting course shown in Fig. 50 is activated, those loops engaged with the knitting needles G through P of the needle bed BD shown in Fig. 49 are respectively transferred to those knitting needles g through p of the needle bed FU, and then, when the knitting course shown in Fig. 51 is activated, the feeder 3 feeds knitting yarns to those knitting needles A through F of the needle bed FD and those knitting needles g through p of the needle bed FU to have them respectively form loops.

Next, when the knitting course shown in Fig. 52 is activated, those loops engaged with the knitting needles g through p of the needle bed FU are respectively transferred to those knitting needles G through P of the needle bed BD. When the knitting course shown in Fig. 53 is activated, the feeder 3 is shifted from the state shown in Fig. 51 to the left, and then the above-identified feeder 6 is shifted from the state shown in Fig. 49 to the left to cause those yarns fed from respective feeders to intersect each other.

Next, when the knitting course shown in Fig. 54 is activated, the feeder 3 is shifted to the right to feed knitting yarns to those knitting needles Q through V of the needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 55 is activated, the feeder 6 is shifted to the right. Next, when the knitting course shown in Fig. 56 is activated, those loops engaged with those knitting needles H, J, L, N, and P of the needle bed FD solely available for

composing knit for making up a pocket are respectively transferred to those knitting needles h, j, n, and p of the needle bed BU. Next, when the knitting course shown in Fig. 57 is activated, the feeder 6 feeds reinforcing yarns to those knitting needles G, I, K, M, and O remaining in the needle bed FD and those knitting needles h, j, n, and p of the needle bed BU to have these needles to respectively form rib-knitting loops.

Next, when the knitting course shown in Fig. 58 is activated, those loops engaged with the knitting needles h, j, n, and p of the needle bed BU are respectively transferred to those knitting needles H, J, L, N, and P of the needle bed FD. When the knitting course shown in Fig. 59 is activated, those loops engaged with the knitting needles G through P of the needle bed BD are respectively transferred to those knitting needles g through p of the needle bed FU. Next, when the knitting course shown in Fig. 60 is activated, the feeder 6 feeds reinforcing yarns to those knitting needles g through p of the needle bed FU to have them to respectively form loops.

When the knitting course shown in Fig. 61 is activated, those loops engaged with the knitting needles g through p of the needle bed FU are respectively transferred to those knitting needles G through P of the needle bed BD. When the knitting course shown in Fig. 62 is activated, the feeder 3 is shifted from the state shown in Fig. 60 to the right, and then, the feeder 6 is also shifted from the state shown in Fig. 57 to the right to cause knitting yarns fed from these feeders 3 and 6 to intersect each other. Next, when the knitting course shown in Fig. 63 is entered, the feeder 3 feeds knitting yarns to those knitting needles A through F of the needle bed FD to have these needles respectively form loops.

Next, when the knitting course shown in Fig. 64 is activated, the feeder 6 is shifted from the state shown in Fig. 63 to the left. Next, when the knitting course shown in Fig. 65 is activated, those loops engaged with those knitting needles H, J, L, N, and P of the needle bed FD are respectively transferred to those knitting needles h, j, n, and p of the needle bed BU, and then, the feeder 6 feeds reinforcing yarns to those knitting needles G, I, K, M, and O, and those knitting needles h, j, n, and p, of both needle beds FD and BU remained inoperative in the knitting process shown in Fig. 57, thus having these knitting needles to respectively form rib-knitting loops. Next, when the knitting course shown in Fig. 67 is activated, those loops engaged with the knitting needles G through P of the needle bed BD are respectively transferred to those knitting needles g through p of the needle bed FU. As a result of the repeated execution of those knitting processes shown in Figures 50 through 67, the flat knitting machine related to the invention securely forms rib-knit of the predetermined length in the periphery of the aperture 8 of the pocket 2.

As shown in Figures 58 and 67, edge portions on

both sides of the rib-knit in the periphery of the aperture 8 of the pocket 2 are integrally composed in the state in which twined yarns are integrally linked with the body-part knit.

Those figures including Fig. 68 on respectively designate the knitting courses for processing edges of the aperture of the formed pocket. When the knitting mode shown in Fig. 68 is entered, those loops engaged with the knitting needles G through P of the needle bed BD are respectively transferred to those knitting needles g through p of the needle bed FU. Next, when the knitting mode shown in Fig. 69 is entered, the feeder 3 feeds knitting yarns to those knitting needles A through F of the needle bed FD and those knitting needles g through p of the needle bed FU to have these needles respectively form loops.

When the knitting course shown in Fig. 70 is activated, those loops engaged with the knitting needles g through p of the needle bed FU are respectively transferred to those knitting needles G through P of the needle bed BD. Next, when the knitting course shown in Fig. 71 is activated, the feeder 3 is shifted from the state shown in Fig. 69 to the left, and then, the feeder 6 is also shifted from the state shown in Fig. 66 to the left to cause those yarns fed from these feeders 3 and 6 to intersect each other. Next, when the knitting course shown in Fig. 72 is activated, the feeder 3 feeds knitting yarns to those knitting needles Q through V of the needle bed FD to have these needles respectively form loops.

When the knitting course shown in Fig. 73 is activated, the feeder 6 is shifted from the state shown in Fig. 66 to the right. Next, when the knitting course shown in Fig. 74 is activated, the feeder 6 feeds knitting yarns to the knitting needles P and O of the needle bed FD in the state in which the supplied yarns are tacked by means of the needle Q of the needle bed FD, and then causes these needles P and O to respectively form loops before eventually transferring those loops engaged with the needles P and O of the needle bed FD to those knitting needles o and p of the needle bed BU.

Next, when the knitting course shown in Fig. 76 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one pitch, and then, the loop engaged with the knitting needle p of the needle bed BU is transferred to the knitting needle O of the needle bed FD. Next, when the knitting course shown in Fig. 77 is activated, those needle beds BU and BD are respectively shifted to the right to be back to the reference position, and then the loop engaged with the knitting needle o of the needle bed BU is transferred to the knitting needle O of the needle bed FD. In consequence, a pair of loops are engaged with the knitting needle O of the needle bed FD.

Next, when the knitting course shown in Fig. 78 is activated, the feeder 6 is shifted to the right. When

the following knitting course shown in Fig. 79 is activated, the feeder 6 feeds knitting yarns to those knitting needles N and O of the needle bed FD to have them respectively form loops.

Next, when the knitting course shown in Fig. 80 is activated, those loops engaged with the knitting needles G and H of the needle bed FD are respectively transferred to those knitting needles g and h of the needle bed BU. Next, when the knitting course shown in Fig. 81 is activated, initially, those needle beds BU and BD in the rear position are respectively shifted to the left by one pitch, and then the loop engaged with the knitting needle h of the needle bed BU is transferred to the knitting needle G of the needle bed FD. In consequence, a pair of loops are conjunctionally engaged with the knitting needle G of the needle bed FD.

When the following knitting course shown in Fig. 83 is activated, the feeder 6 is shifted to the right once, and then, when the following knitting mode shown in Fig. 84 is entered, the feeder 6 feeds knitting yarn to the needle G of the needle bed FD to form a loop, and then the feeder 6 is shifted to the left before externally being placed.

When the knitting course shown in Fig. 85 is activated, the loop engaged with the knitting needle G of the needle bed FD is transferred to the knitting needle g of the needle bed BU. Next, the knitting course shown in Fig. 86 is activated, in which those needle beds BU and BD in the rear position are respectively shifted to the left by one pitch, and then the loop engaged with the knitting needle g of the needle bed BU is transferred to the knitting needle F of the needle bed FD. In consequence a pair of loops are engaged with the knitting needle F of the needle bed FD.

Next, when the knitting course shown in Fig. 87 is activated, those needle beds BU and BD in the rear position are respectively shifted to the right by one pitch. Next, when the knitting course shown in Fig. 88 is activated, the feeder 3 feeds knitting yarns to those knitting needles V through A of the needle bed BD to have them respectively form loops. This in turn permits the rib-knitted yarns along the edges on both sides of the aperture of the pocket to twist up themselves in combination with the body-part knit as shown in those knitting courses shown in Figures 57 and 58.

Henceforth, the flat knitting machine related to the invention follows up the knitting process shown in Fig. 88 to properly form the front-body knitted domain 7 available for a cardigan. Next, the edge domains of the lower-body domain and the edges on both sides are respectively linked with the front-body knitted domain 7 of the cardigan, and yet, knit organization of the front-body knitted domain 7 concealed by the knitted fabric corresponding to the pocket region is formed on the superficial knit, thus eventually materializing such a pocket abundant in bulkiness characteristic of the additional type pocket 2.

The Second Embodiment

As described earlier, the flat knitting machine made available for executing the first embodiment of the invention disposes a plurality of needle beds each storing a number of knitting needles capable of slidably moving back and forth, where these needle beds are disposed in the "/\" shape formation in opposition from each other in file. The flat knitting machine made available for executing the first embodiment of the invention is conventionally called the "4-piece needle-bed" type. On the other hand, the method of composing a knit wear integrated with an additional type pocket according to the second embodiment of the invention introduces such a flat knitting machine conventionally called the "2-piece needle bed" type, which is furnished with a pair of needle beds each storing a number of knitting needles capable of slidably moving back and forth on the top surface by disposing these two needle beds in the "/\" shape formation in opposition from each other. The "2-piece needle bed" type flat knitting machine introduced for executing the second embodiment of the invention properly executes the method of composing a knit wear integrated with an additional type pocket by yielding satisfactory result identical to that is achieved by executing the first embodiment described above.

Concretely, as is apparent from the knitting course shown in Fig. 89, of those knitting needles A through q of the needle bed F in the front position for example, those alternate knitting needles including A, C, E, ... m, o, and q jointly operate themselves in place of the needle bed FD disposed on the bottom side in the front position for executing the knitting method of the first embodiment, whereas those remaining knitting needles including B, D, F, ... l, n, and p jointly operate themselves in place of the needle bed FU disposed on the top side in the front position for executing the method made available for executing the first embodiment. Likewise, of those knitting needles A through q of the needle bed B in the rear position for example, those alternate knitting needles including A, C, E, ... m, o, and q jointly operate themselves in place of the needle bed BD disposed on the bottom side in the rear position for executing the method according to the first embodiment, whereas those remaining knitting needles including B, D, F, ... l, n, and p jointly operate themselves in place of the needle bed BU disposed on the top side in the rear position for executing the method according to the first embodiment.

More particularly, the knitting courses shown in Fig. 89 through Fig. 173 respectively and sequentially correspond to those knitting courses shown in Fig. 4 through Fig. 88 executed for the first embodiment of the invention. In the same way as was done for the first embodiment, the method related to the second embodiment of the invention integrally forms an addi-

tional type pocket in such a state in which knitting yarns provided for the bottom and edges on both sides of the pocket twist up themselves in combination with the body-part knit, and yet, by way of superficially forming knitted organization of the front-body knitted domain concealed in the knit corresponding to the pocket region, thus eventually materializing such a quality integrated pocket abundant in bulkiness characteristic of the additional type pocket.

The Third Embodiment

The method according to the third embodiment of the invention for composing a knit wear integrated with an additional type pocket also introduces a "4-piece needle bed" type flat knitting machine identical to the one made available for executing the method according to the first embodiment of the invention. The flat knitting machine is furnished with four needle beds which are respectively disposed in the "/\" shape formation in opposition from each other in file each storing a number of knitting needles capable of slidably moving back and forth. The third embodiment provides a method of composing a knitted wear integrated with an additional type pocket, where those knitting yarns and loops provided for the bottom and edges on both sides of the pocket shown in Fig. 174 are inter-sectionally linked with each other in combination with the body-part knitted domain.

Those knitting courses shown in Fig. 175 through Fig. 205 related to the third embodiment of the invention solely designate changeable knitting courses in the course of executing the method of integrally composing knitted fabrics integrated with an additional type pocket among those knitting courses previously described for the first embodiment.

It should be understood however that the number of loops corresponding to straight region of a pocket composed by executing those knitting courses shown in Fig. 175 through Fig. 205 does not coincide with the number of those loops formed in those knitting courses shown in Fig. 32 through Fig. 45 related to the first embodiment. This is solely because the "4-piece needle-bed" flat knitting machine made available for executing the third embodiment of the invention provides the front needle beds and the rear needle beds by way of deviating their positions by a half pitch. Except for this deviation, the flat knitting machine available for executing the method related to the third embodiment of the invention has the structure identical to that of the flat knitting machine made available for executing the first embodiment.

Concretely, when the knitting course shown in Fig. 175 is activated, a feeder 5 is shifted to the right. Next, when the knitting course shown in Fig. 176 is activated, another feeder 3 feeds knitting yarns to those knitting needles A through F of a needle bed FD to have them respectively form loops. Next, when the knitting

course shown in Fig. 178 is activated, the feeder 5 is shifted to the left. Next, when the knitting course shown in Fig. 179 is activated, the feeder 5 feeds a knitting yarn to a knitting needle g of a needle bed FU to have it form a loop.

Next, when the knitting course shown in Fig. 180 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, the loop engaged with the knitting needle g of the needle bed FU is transferred to a knitting needle G of a needle bed BD, and then, permits the feeder 5 to feed knitting yarns to a knitting needle h of the needle bed FU and the knitting needle G of the needle bed BD. Next, when the knitting course shown in Fig. 181 is activated, those needle beds BU and BD in the rear position are respectively brought back to the right by one-half pitch. Next, the feeder 3 is shifted to the left. In the meanwhile, the feeder 5 feeds knitting yarns by way of encircling the periphery of the loop engaged with the knitting needle G of the needle bed BD.

Next, when the knitting course shown in Fig. 182 is activated, initially, the feeder 5 feeds knitting yarns to those knitting needles h through o of the needle bed FU, and then, the knitting course shown in Fig. 183 is activated, in which those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, those loops engaged with those knitting needles h through n of the needle bed FU are respectively transferred to those knitting needles H through N of the needle bed BD.

Next, when the knitting course shown in Fig. 185 is activated, another feeder 4 feeds knitting yarns to those knitting needles V through Q of another needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 186 is activated, the feeder 5 is shifted to the right. Next, when the knitting course shown in Fig. 188 is activated, initially, those needle beds BU and BD are respectively shifted to the left by one-half pitch, and then the loop engaged with the knitting needle o of the needle bed FU is transferred to the knitting needle O of the needle bed BD. Next, when the knitting course shown in Fig. 189 is activated, those needle beds BU and BD in the rear position are respectively brought back to the right by one-half pitch. Next, the feeder 4 is shifted to the left, and then causes the feeder 5 to feed knitting yarns by way of encircling the periphery of the loop engaged with the knitting needle G of the needle bed BD.

Next, when the knitting course shown in Fig. 190 is activated, the feeder 5 feeds knitting yarns to those knitting needles P through G of the needle bed FD to have them respectively form loops. Next, the knitting course shown in Fig. 191 is activated, in which those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then those loops engaged with the knitting needles G through O of the needle bed BD are respectively

transferred to those knitting needles g through o of the needle bed FU.

Next, when the knitting course shown in Fig. 192 is activated, the feeder 3 at the position shown in Fig. 181 is shifted to the right. Next, when the knitting course shown in Fig. 193 is activated, the feeder 5 feeds knitting yarns to the knitting needle g of the needle bed FU to have it form a loop. Next, when the knitting course shown in Fig. 194 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, the loop engaged with the knitting needle g of the needle bed FU is transferred to the knitting needle G of the needle bed BD.

Next, when the knitting course shown in Fig. 195 is activated, the feeder 5 feeds knitting yarns to those knitting needles A through F of the needle bed FD by way of encircling the periphery of the loop engaged with the needle G of the needle bed BD to have these needles respectively form loops. Next, when the knitting course shown in Fig. 196 is activated, the feeder 5 is shifted to the left, and then, when the knitting course shown in Fig. 196 is activated, the feeder 5 is also shifted to the left. When the following knitting course shown in Fig. 197 is activated, the feeder 5 feeds knitting yarns to those knitting needles h through o of the needle bed FU to have these needles respectively form loops.

Next, when the knitting course shown in Fig. 198 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, those loops engaged with the needles h through o of the needle bed FU are respectively transferred to those knitting needles H through N of the needle bed BD. Next, when the knitting course shown in Fig. 199 is activated, the feeder 4 is shifted to the left, and then, when the knitting course shown in Fig. 200 is activated, the feeder 4 is transferred to the knitting needle O of the needle bed BD.

Next, when the knitting course shown in Fig. 201 is activated, the feeder is shifted to the left. When the following knitting course shown in Fig. 202 is activated, the feeder 5 feeds knitting yarns to those knitting needles Q through V of the needle bed FD by way of encircling the periphery of the loop engaged with the knitting needle O of the needle bed BD to have them respectively form loops.

Next, when the knitting course shown in Fig. 203 is activated, the feeder 5 is shifted to the right. Next, when the knitting course shown in Fig. 204 is activated, the feeder 5 feeds knitting yarns to those knitting needles P through G of the needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 205 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch. Next, those loops engaged with the knitting needles G through O of the needle bed BD are respectively transferred to those

knitting needles g through o of the needle bed FU.

Henceforth, the flat knitting machine made available for executing the method related to the third embodiment of the invention repeatedly executes those knitting processes shown in Fig. 175 through Fig. 205 before eventually composing the straight portion of the pocket 2. As shown in Fig. 174 for example, knitting yarns and loops interlock with each other along the both-side edges of the pocket 2 and the knitted fabric available for composing the front body domain 7.

The Fourth Embodiment

As described earlier, the method related to the third embodiment of the invention makes use of a "4-piece needle-bed" type flat knitting machine which is furnished with four needle beds in file each storing a number of knitting needles on the top surface by permitting these knitting needles to slidably move back and forth, where these needle beds are respectively disposed in opposition from each other in the "/\" shape formation. On the other hand, the fourth embodiment of the invention provides the method of composing a knit wear integrally provided with an additional-type pocket by operating a conventional "2-piece needle-bed" type flat knitting machine which is furnished with a pair of needle beds each storing a number of knitting needles on the top surface by permitting these knitting needles to slidably move back and forth, where these needle beds are also disposed in opposition from each other in the "/\" shape formation. Concretely, using the "2-piece needle-bed" type flat knitting machine mentioned above, the fourth embodiment of the invention provides the method of composing a knitted fabric integrally provided with an additional-type pocket by arranging the bottom and both-side edges of the pocket to be interlocked with the body-part knitted fabric in the state in which knitting yarns are intersectionally linked with loops in the same way as that is achievable by operating the "4-piece needle-bed" type flat knitting machine made available for executing the method related to the third embodiment of the invention.

More particularly, as is apparent from Fig. 206, of those knitting needles A through o of the needle bed F in the front position, those alternate knitting needles including A, C, E, ... k, m, and o for example jointly operate themselves in place of the needle bed FD disposed on the bottom side in the front position made available for executing the method related to the third embodiment, whereas those remaining alternate knitting needles including B, D, F, ... h, l, and n of the needle bed F jointly operate themselves in place of the needle bed FU disposed on the top side in the front position made available for executing the third embodiment. Likewise, of those knitting needles A through o of the other needle bed B, those alternate

knitting needles including A, C, E, ... k, m, and o for example jointly operate themselves in place of the needle bed BD disposed on the bottom side in the rear position made available for executing the method related to the invention, whereas those remaining alternate knitting needles including B, D, F, ... h, l, and n for example jointly operate themselves in place of the other needle bed BU disposed on the top side in the rear position made available for executing the method related to the third embodiment.

Concretely, the knitting course shown in Fig. 206 corresponds to the one shown in Fig. 175 made available for executing the method related to the third embodiment. Those knitting courses shown in Fig. 206 through Fig. 234 respectively and sequentially correspond to those knitting courses shown in Fig. 175 through Fig. 205 made available for executing the method related to the third embodiment. Furthermore, in the same way as was done for the third embodiment, as shown in Fig. 174, the both-side edges of the pocket 2 are linked with the front body domain 7 in the state in which knitting yarns respectively interlock with corresponding loops, and yet, knit organization of the front body knit domain concealed in the pocket region is superficially formed, thus eventually providing a quality pocket abundant in bulkiness characteristic of the additional type pocket.

The Fifth Embodiment

Like the first embodiment of the invention, the fifth embodiment of the invention provides the method of composing a knit wear integrally provided with an additional type pocket by applying the conventionally called "4-piece needle-bed" type flat knitting machine furnished with four needle beds each storing a number of knitting needles on the top surface by permitting them to slidably move back and forth, where these four needle beds are disposed in opposition from each other in the "/\" shape formation in file. The fifth embodiment provides the method of composing a knit wear integrally provided with an additional-type pocket, where the bottom and both-side edges of the pocket shown in Fig. 235 are integrally linked with the front body knit.

Fig. 236 through Fig. 263 respectively designate only the changeable portions in those knitting courses made available for composing a knit wear integrated with an additional-type pocket according to the method related to the first embodiment of the invention.

It should be understood however that the number of loops corresponding to straight region of a pocket composed by executing those knitting courses shown in Fig. 236 through Fig. 263 does not coincide with the number of those loops formed in those knitting courses shown in Fig. 32 through Fig. 45 related to the first embodiment. This is solely because the "4-piece needle-bed" flat knitting machine made available for exe-

cutting the fifth embodiment of the invention provides the front needle beds and the rear needle beds by way of deviating their positions by a half pitch. Except for this deviation, the structure of the flat knitting machine made available for executing the method related to the fifth embodiment of the invention is identical to that of the flat knitting machine made available for executing the method related to the first embodiment of the invention.

Concretely, when the knitting course shown in Fig. 236 is activated, a feeder 5 is shifted to the right. Next, when the knitting course shown in Fig. 237 is activated, another feeder 3 feeds knitting yarns to those knitting needles A through F of a needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 238 is activated, those feeders 3 and 5 are respectively shifted to the left. While processing the knitting course shown in Fig. 238, knitting yarns are fed to empty needles to form loops. Next, corresponding front sticks are superposed on the formed loops. Concretely, a pair of loops are formed in engagement with those knitting needles g and o of the needle bed FU superposed in file.

When the knitting course shown in Fig. 239 is activated, the feeder 3 feeds a knitting yarn to a knitting needle G of a needle bed BD to have it form a loop. This means that a conventionally called "empty-needle knitting" process is done. Next, when the knitting course shown in Fig. 240 is activated, the feeder 3 is shifted to the left. Next, when the knitting course shown in Fig. 241 is activated, the feeder 5 feeds knitting yarns to those knitting needles g through o of the needle bed FU to have them respectively form loops.

Next, when the knitting course shown in Fig. 242 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then those loops engaged with the knitting needles g through n of the needle bed FU are respectively transferred to those knitting needles G through N of the needle bed BD. Next, when the knitting course shown in Fig. 243 is activated, the feeder 5 is shifted to the left.

Next, when the knitting course shown in Fig. 244 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then another feeder 4 feeds knitting yarns to those knitting needles V through Q of the needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 245 is activated, those needle beds BU and BD are respectively brought back to the right by one-half pitch, and then those feeders 4 and 5 are also shifted to the right. Next, when the knitting course shown in Fig. 246 is activated, the feeder 4 feeds a knitting yarn to the knitting needle G of the needle bed BD to have it form a loop.

Next, when the knitting course shown in Fig. 247 is activated, the feeder 4 is shifted to the right to cause

the yarn delivered from this feeder 4 to intersect the yarn delivered by the feeder 5. Next, when the knitting course shown in Fig. 248 is activated, those needle beds BU and BD are respectively shifted to the left by one-half pitch, and then, the loop engaged with the knitting needle o of the needle bed FU is transferred to the knitting needle O of the needle bed BD to have the transferred loop superpose on the loops engaged with the needle O of the needle bed BD. As a result, the right-side edge of the shaped pocket interlocks with the front body knitted fabric.

Next, when the knitting course shown in Fig. 249 is activated, those needle beds BU and BD are respectively brought back to the right by one-half pitch, and then, the feeder 5 feeds knitting yarns to those knitting needles P through G of the needle bed FD. Next, when the knitting course shown in Fig. 250 is activated, those needle beds BU and BD are respectively shifted to the left by one-half pitch, and then those loops engaged with the knitting needles G through O of the needle bed BD are respectively transferred to those knitting needles g through o of the needle bed FU.

Next, when the knitting course shown in Fig. 251 is activated, the feeder 3 feeds a knitting yarn to the empty needle G of the needle bed BD to have it form a loop. Next, when the knitting course shown in Fig. 256 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then those loops engaged with the knitting needles g through o of the needle bed FU are respectively transferred to those knitting needles G through N of the needle bed BD. Next, when the knitting course shown in Fig. 257 is activated, those needle beds BU and BD in the rear position are respectively shifted to the right by one-half pitch, and then the feeder 4 feeds a knitting yarn to the empty knitting needle O of the needle bed BD.

Next, when the knitting course shown in Fig. 258 is activated, the feeder 5 is shifted to the left. Next, when the knitting course shown in Fig. 259 is activated, the feeder 4 feeds knitting yarns to those knitting needles q through v of the needle bed FU. Next, when the knitting course shown in Fig. 260 is activated, the feeder 5 is shifted to the right. Next, when the knitting course shown in Fig. 261 is activated, those needle beds BU and BD are respectively shifted to the left by one-half pitch, and then the loop engaged with the knitting needle o of the needle bed FU is transferred to the knitting needle O of the needle bed BD.

Next, when the knitting course shown in Fig. 262 is activated, those needle beds BU and BD in the rear position are respectively shifted to the right by one-half pitch in return, and then, the feeder 5 feeds knitting yarns to those knitting needles P through G of the needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 263 is activated, those needle beds BU and BD in the rear pos-

ition are respectively shifted to the left by one-half pitch, and then those loops engaged with the knitting needles G through O of the needle bed BD are respectively transferred to those knitting needles g through o of the needle bed FU. Henceforth, the flat knitting machine available for executing the fifth embodiment repeatedly executes those knitting processes shown in Fig. 236 through Fig. 263 before eventually composing the straight portion of the pocket 2.

As shown in Fig. 236, both-side edges of the pocket 2 composed by executing the above processes are intergally linked to the front body knitted domain 7 solely by means of knitting, where the "intarsia jacquard" is made available for the knit.

The Sixth Embodiment

As described earlier, the method related to the fifth embodiment of the invention for composing a knit wear integrally provided with an additional-type pocket makes use of a conventionally called "4-piece needle-bed" type flat knitting machine which is furnished with four needle beds in file each storing a number of knitting needles on the top surface by permitting these knitting needles to slidably move back and forth, where these needle beds are respectively disposed in opposition from each other in the "/\" shape formation. On the other hand, the sixth embodiment of the invention provides the method of composing a knit wear integrally provided with an additional-type pocket by operating a conventionally called "2-piece needle-bed" type flat knitting machine which is furnished with a pair of needle beds each storing a number of knitting needles on the top surface by permitting these knitting needles to slidably move back and forth, where these needle beds are also disposed in opposition from each other in the "/\" shape formation. Concretely, using the "2-piece needle-bed" type flat knitting machine, the sixth embodiment of the invention provides the method of composing a knitted fabric integrally provided with an additional-type pocket by arranging the bottom and both-side edges of the pocket to be interlocked with the front body knitted fabric in the state in which knitting yarns are linked with loops by means of a knit.

More particularly, as is apparent from Fig. 264, of those knitting needles Q through o of the needle bed F present in the front position, those alternate knitting needles including A, C, E, ... k, m, and o jointly operate themselves in place of the needle bed FD disposed on the bottom side in the front position made available for the fifth embodiment, whereas those remaining alternate knitting needles including B, D, F, ... h, l, and n jointly operate themselves in place of the needle bed FU disposed on the top side in the front position made available for the fifth embodiment. In addition, of those knitting needles A through o of the needle bed B in the rear position for example, those

alternate knitting needles including A, C, E, ... k, m, and o jointly operate in place of the needle bed BD disposed on the bottom side in the rear position made available for the fifth embodiment, whereas those remaining alternate knitting needles B, D, F, ... h, l, and n jointly operate themselves in place of the needle bed BU disposed on the top side in the rear position made available for the fifth embodiment of the invention.

Concretely, the knitting course shown in Fig. 264 corresponds to the one shown in Fig. 236 made available for executing the method related to the fifth embodiment. Those knitting courses shown in Fig. 265 through Fig. 291 respectively and sequentially correspond to those knitting courses shown in Fig. 237 through Fig. 263 made available for executing the fifth embodiment of the invention. Like the fifth embodiment described above, as shown in Fig. 235, the both-side edges of the pocket 2 are linked with the front body knitted domain 7 in the state in which knitting yarns respectively interlock with corresponding loops, and yet, knit organization of the front body knit domain 7 concealed in the pocket region is superficially formed, thus eventually providing a quality pocket abundant in bulkiness characteristic of the additional type pocket.

The Seventh Embodiment

Like the first embodiment of the invention, the seventh embodiment of the invention provides the method of composing a knit wear integrally provided with an additional type pocket by applying the conventionally called "4-piece needle-bed" type flat knitting machine furnished with four needle beds each storing a number of knitting needles on the top surface by permitting them to slidably move back and forth, where these four needle beds are disposed in opposition from each other in the "/\" shape formation in file. The seventh embodiment of the invention provides the method of composing a knit wear integrally provided with an additional-type pocket, where the bottom and both-side edges of the pocket shown in Fig. 292 are integrally linked with the front body knit.

Fig. 293 through Fig. 322 respectively designate only the changeable portions in those knitting courses made available for composing a knit wear integrated with an additional type pocket according to the method related to the first embodiment of the invention.

It should be understood however that the actual number of loops corresponding to straight portion of a pocket composed by processing those knitting courses shown in Fig. 293 through Fig. 322 does not coincide with the actual number of those loops formed in those knitting courses shown in Fig. 32 through Fig. 45 related to the first embodiment. This is solely because the "4-piece needle-bed" type flat knitting machine available for executing the seventh embodiment provides the front needle beds and the

rear needle beds by way of deviating their positions by a half pitch. Except for this deviation, the structure of the flat knitting machine available for executing the method according to the seventh embodiment is identical to that of the flat knitting machine made available for executing the method according to the first embodiment of the invention described earlier.

Concretely, when the knitting course shown in Fig. 293 is activated, a feeder 5 is shifted to the right. Next, when the knitting course shown in Fig. 294 is activated, another feeder 3 feeds knitting yarns to those knitting needles A through F of a needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 295 is activated, these feeders 3 and 5 are respectively shifted to the left.

When the following knitting course shown in Fig. 296 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then the loop engaged with a knitting needle g of a needle bed FU is transferred to a knitting needle G of the needle bed BD, and then causes the feeder 3 to feed a knitting yarn to a knitting needle G of the needle bed BD to have it form a loop.

Next, when the knitting course shown in Fig. 298 is activated, the feeder 3 is shifted to the left. Next, when the knitting course shown in Fig. 299 is activated, initially, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, the loop engaged with the knitting needle G of the needle bed BD is transferred to the knitting needle g of the needle bed FU.

Next, when the knitting course shown in Fig. 300 is activated, those needle beds BU and BD are respectively brought back to the right by one-half pitch, and then causes the feeder 5 to feed knitting yarns to those knitting needles G through o of the needle bed FU to have them respectively form loops.

Next, when the knitting course shown in Fig. 301 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, those loops engaged with the knitting needles g through n of the needle bed FU are transferred to those knitting needles G through N of the needle bed BD. Next, when the knitting course shown in Fig. 302 is activated, those needle beds BU and BD are respectively brought back to the right by one-half pitch, and then causes the feeder 5 to feed a knitting yarn to the knitting needle o of the needle bed FU.

Next, when the knitting course shown in Fig. 303 is activated, another feeder 4 feeds knitting yarns to those knitting needles V through Q of the needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 304 is activated, those feeders 4 and 5 are respectively shifted to the right. When the following knitting course shown in Fig. 305 is activated, initially, those needle beds BU and BD are respectively shifted to the left by one-half pitch, and then the loop engaged with the knitting nee-

dle o of the needle bed FU is transferred to the knitting needle O of the needle bed BD.

Next, when the knitting course shown in Fig. 306 is activated, those needle beds BU and BD are respectively shifted to the right by one-half pitch, and then causes the feeder 4 to feed a knitting yarn to the knitting needle O of the needle bed BD to have it form a loop. Next, when the knitting course shown in Fig. 307 is activated, the feeder 4 is shifted to the right.

Next, when the knitting course shown in Fig. 308 is activated, the feeder 5 feeds knitting yarns to those knitting needles P through G of the needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 309 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, those loops engaged with the knitting needles H through O of the needle bed BD are respectively transferred to those knitting needles h through o of the needle bed FU.

Next, when the knitting course shown in Fig. 310 is activated, the feeder 3 feeds a knitting yarn to the knitting needle G of the needle bed BD to have it form a loop. Next, when the knitting course shown in Fig. 311 is activated, the feeder 5 is shifted to the right to have those knitting yarns delivered from the feeders 3 and 5 intersect each other.

Next, when the knitting course shown in Fig. 312 is activated, the feeder 3 feeds knitting yarns to those knitting needles F through A of the needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 313 is activated, the feeder 5 is shifted to the left. Next, when the knitting course shown in Fig. 314 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, the loop engaged with the knitting needle G of the needle bed BD is transferred to the knitting needle g of the needle bed FU. Next, when the knitting course shown in Fig. 315 is activated, those needle beds BU and BD in the rear position are respectively brought back to the right by one-half pitch, and then causes the feeder 5 to feed knitting yarns to those knitting needles g through o of the needle bed FU to have it form a loop. Next, when the knitting course shown in Fig. 316 is activated, initially, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, those loops engaged with the knitting needles g through o of the needle bed FU are respectively transferred to those knitting needles G through O of the needle bed BD.

Next, when the knitting course shown in Fig. 317 is activated, those needle beds BU and BD in the rear position are respectively brought back to the right by one-half pitch, and then causes the feeder 4 to feed a knitting yarn to the knitting needle O of the needle bed BD to have it form a loop.

Next, when the knitting course shown in Fig. 318

is activated, the feeder 5 is shifted to the left. Next, when the knitting course shown in Fig. 319 is activated, the feeder 4 feeds knitting yarns to those knitting needles q through v of the needle bed FU. Next, when the knitting course shown in Fig. 320 is activated, the feeder 5 is shifted to the right.

Next, when the knitting course shown in Fig. 322 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, those loops engaged with the knitting needles G through O of the needle bed BD are respectively transferred to those knitting needles g through o of the needle bed FU.

Henceforth, the flat knitting machine available for executing the seventh embodiment of the invention repeatedly executes operations for processing those knitting courses shown in Fig. 297 through Fig. 322 before eventually composing the straight portion of the predetermined pocket 2.

As shown in Fig. 292, both-side edges of the pocket 2 composed by executing the above sequential processes are integrally linked with the front-body knit 1 solely by means of knitting, where the "intarsia jacquard" is made available for the knit.

The Eighth Embodiment

As described earlier, the method related to the seventh embodiment of the invention for composing a knit wear integrally provided with an additional-type pocket makes use of a conventionally called "4-piece needle-bed" type flat knitting machine which is furnished with four needle beds in file each storing a number of knitting needles on the top surface by permitting these knitting needles to slidably move back and forth, where these needle beds are respectively disposed in opposition from each other in the " " shape formation. On the other hand, the eighth embodiment of the invention provides the method of composing a knit wear integrally provided with an additional-type pocket by operating a conventionally called "2-piece needle-bed" type flat knitting machine which is furnished with a pair of needle beds each storing a number of knitting needles on the top surface by permitting these knitting needles to slidably move back and forth, where these needle beds are also disposed in opposition from each other in the " " shape formation. Concretely, using the "2-piece needle-bed" type flat knitting machine, the eighth embodiment of the invention provides the method of composing a knitted fabric integrally provided with an additional-type pocket by arranging the bottom and both-side edges of the pocket to be interlocked with the front body knitted fabric in the state in which the knitting yarns are linked with loops by means of a knit.

More particularly, as is apparent from Fig. 323, of those knitting needles A through o of a needle bed F in the front position for example, those alternate

knitting needles including A, C, E, ... k, m, and o jointly operate themselves in place of the needle bed FU disposed on the top side in the front position made available for the method related to the seventh embodiment of the invention. On the other hand, of those knitting needles A through o of a needle bed B in the rear position for example, those alternate knitting needles including A, C, E, ... k, m, and o jointly operate themselves in place of the needle bed BD disposed on the bottom side in the rear position made available for executing the seventh embodiment of the invention. On the other hand, when executing the method according to the eighth embodiment of the invention, of those knitting needles A through o of a needle bed B in the rear position, those alternate knitting needles A, C, E, ... k, m, and o for example jointly operate themselves in place of the needle bed BD disposed on the bottom side in the rear position made available for the seventh embodiment, whereas those remaining alternate knitting needles B, D, F, ... h, l, and n jointly operate themselves in place of the needle bed BU disposed on the top side in the rear position made available for the seventh embodiment, respectively.

Concretely, Fig. 323 corresponds to Fig. 293 made available for the seventh embodiment. Furthermore, those knitting courses shown in Fig. 324 through Fig. 352 respectively and sequentially correspond to those knitting courses shown in Fig. 294 through Fig. 322 made available for the seventh embodiment. Furthermore, in the same way as was done for the seventh embodiment described above, as shown in Fig. 235, the both-side edges of the pocket 2 are linked with the front body knit 7 in the state in which knitting yarns respectively interlock with corresponding loops, and yet, knit organization of the front body knit domain 7 concealed in the pocket region is superficially formed, thus eventually providing a quality pocket abundant in bulkiness characteristic of the additional-type pocket.

The Ninth Embodiment

Like the first embodiment of the invention described earlier, the ninth embodiment of the invention provides the method of composing a knit wear integrally provided with an additional type pocket by operating the conventionally called "4-piece needle-bed" type flat knitting machine furnished with four needle beds disposed in opposition from each other in the " / \ " shape formation in file, where each needle bed stores a number of knitting needles on the top surface by permitting them to slidably move back and forth. The ninth embodiment of the invention provides the method of composing a knit wear integrally provided with an additional-type pocket, where the bottom and both-side edges of the pocket shown in Fig. 353 are integrally linked with the front body knit by way of in-

terlocking knitting yarns themselves.

Fig. 354 through Fig. 369 respectively designate only the changeable portions in those knitting courses made available for composing a knit wear integrated with an additional type pocket according to the method related to the first embodiment of the invention.

It should be understood however that the actual number of loops corresponding to straight portion of a pocket composed by executing those knitting courses shown in Fig. 293 through Fig. 354 through Fig. 369 does not coincide with the actual number of those loops formed in those knitting courses shown in Fig. 32 through Fig. 45 made available for executing the method related to the first embodiment. This is solely because the "4-piece needle-bed" type flat knitting machine available for executing the method related to the ninth embodiment of the invention provides the front needle beds and the rear needle beds by way of deviating their positions by a half pitch. Except for this deviation, the structure of the flat knitting machine available for executing the method related to the ninth embodiment is identical to that of the flat knitting machine made available for executing the method according to the first embodiment described earlier.

Concretely, when the knitting course shown in Fig. 354 is activated, a feeder 5 feeds knitting yarns to those knitting needles A through F of a needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 355 is activated, the feeder 5 and another feeder 3 are respectively shifted to the left. Next, when the knitting course shown in Fig. 356 is activated, the feeder 5 feeds knitting yarns to those knitting needles F through P of the needle bed FD to have them respectively form loops in the state in which both ends of the loops interlock with each other.

Next, when the knitting course shown in Fig. 357 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, those loops engaged with the knitting needles G through O of a needle bed BD are respectively transferred to those knitting needles g through o of a needle bed FU. Next, when the knitting course shown in Fig. 358 is activated, those needle beds BU and BD in the rear position are respectively brought back to the right by one-half pitch, and then causes the feeder 3 to feed knitting yarns to those knitting needles g through o of the needle bed FU to have them respectively form loops.

Next, when the knitting course shown in Fig. 359 is activated, initially, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, those loops engaged with those knitting needles g through o of the needle bed FU are respectively transferred to those knitting needles G through O of the needle bed BD. In consequence, as shown in Fig. 360, the left edge of pocket 2 comprises those knitting yarns interlocked with each

other. When the knitting course shown in Fig. 360 is activated, those feeders 3 and 5 are respectively shifted to the left to cause those knitting yarns out of these feeders 3 and 5 to intersect each other. Next, when the knitting course shown in Fig. 361 is activated, the feeder 5 feeds knitting yarns to those knitting needles Q through V of the needle bed FD to have them respectively form loops. As a result, knitting yarns interlock with the left edge of pocket 2.

Next, when the knitting course shown in Fig. 362 is activated, the feeder 5 feeds knitting yarns to those knitting needles V through Q of the needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 363 is activated, those feeders 3 and 5 are respectively shifted to the right. When the following knitting course shown in Fig. 364 is activated, the feeder 5 also feeds knitting yarns to those knitting needles P through G of the needle bed FD to have them respectively form loops. Next, when the knitting course shown in Fig. 365 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then those loops engaged with the knitting needles G through O of the needle bed BD are respectively transferred to those knitting needles g through o of the needle bed FU.

Next, when the knitting course shown in Fig. 366 is activated, those needle beds BU and BD in the rear position are respectively brought back to the right by one-half pitch, and then causes the feeder 3 to feed knitting yarns to those knitting needles o through g of the needle bed FU to have them respectively form loops. Next, when the knitting course 367 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, those loops engaged with the knitting needles g through o of the needle bed FU are respectively transferred to those knitting needles G through O of the needle bed BD.

Next, when the knitting course shown in Fig. 368 is activated, those feeders 3 and 5 are respectively shifted to the right to cause those knitting yarns out from these feeders 3 and 5 to intersect each other. When the knitting course shown in Fig. 369 is activated, the feeder 5 feeds knitting yarns to those knitting needles F through A of the needle bed FD to have them respectively form loops. As a result, knitting yarns respectively interlock each other at the left edge of the pocket 2.

Henceforth, the flat knitting machine available for executing the method related to the ninth embodiment repeatedly executes operation for processing those knitting courses shown in Fig. 354 through Fig. 369 before eventually composing straight portion of the pocket 2.

As shown in Fig. 353, both-side edges of the pocket 2 are linked with the front body knit 7 solely by means of knitting.

The Tenth Embodiment

As described earlier, the method according to the ninth embodiment of the invention for composing a knit wear integrally provided with an additional-type pocket makes use of the conventionally called "4-piece needle-bed" type flat knitting machine which is furnished with four needle beds in file each storing a number of knitting needles on the top surface by permitting these knitting needles to slidably move back and forth, where these needle beds are respectively disposed in opposition from each other in the "/\" shape formation. On the other hand, the tenth embodiment of the invention provides the method of composing a knit wear which is integrally provided with an additional-type pocket by operating a conventionally called "2-piece needle-bed" type flat knitting machine which is furnished with a pair of needle beds each storing a number of needle beds on the top surface by way of permitting these knitting needles to slidably move back and forth, where these needle beds are also disposed in opposition from each other in the "/\" shape formation. Concretely, using the "2-piece needle-bed" type flat knitting machine, the tenth embodiment of the invention provides the method of composing a knitted fabric which is integrated with an additional type pocket having the bottom and both-side edges of the pocket integrally being linked with the front-body knit by means of knitting yarns and kit in the same way as was executed by the "4-piece needle-bed" type flat knitting machine made available for executing the method related to the ninth embodiment of the invention.

More particularly, as shown in Fig. 370, of those knitting needles A through o of a front needle bed F, those alternate knitting needles A, C, E, ... k, m, and o jointly operate themselves in place of the needle bed FD disposed on the bottom side in the front position made available for the ninth embodiment, whereas those remaining alternate knitting needles including B, D, F, ... h, l, and n jointly operate themselves in place of the needle bed FU disposed on the top side in the front position made available for the ninth embodiment. Furthermore, of those knitting needles A through o of a rear-side needle bed B, those alternate knitting needles including A, C, E, ... k, m, and o jointly operate themselves in place of the needle bed BD disposed on the bottom side in the rear position made available for the ninth embodiment, whereas those remaining alternate knitting needles including B, D, F, ... h, l, and n jointly operate themselves in place of the needle bed BU disposed on the top side in the rear position made available for the ninth embodiment.

Concretely, Fig. 370 corresponds to Fig. 354 made available for the ninth embodiment, and yet, those knitting courses shown in Fig. 371 through Fig. 385 respectively and sequentially correspond to those knitting courses shown in Fig. 355 through Fig.

369 made available for the ninth embodiment. Furthermore, like the pocket formed by the method according to the ninth embodiment, as shown in Fig. 353, both-side edges of the pocket 2 are integrally linked with with the front body knit 7 by way of causing knitting yarns to intersectionally link with each other, and yet, the knit organization of the front body knit domain concealed in the knit of the pocket region is superficially formed, thus eventually providing a quality pocket abundant in bulkiness characteristic of the additional-type pocket.

The Eleventh Embodiment

Like the first embodiment described earlier, the eleventh embodiment of the invention provides the method of composing a knit wear integrally provided with an additional type pocket by operating the conventionally called "4-piece needle-bed" type flat knitting machine which is furnished with four needle beds each storing a number of knitting needles on the top surface by permitting them to slidably move back and forth, where these needle beds are respectively disposed in opposition from each other in the "/\" shape formation in file. The eleventh embodiment of the invention provides the method of composing a knit wear integrally provided with an additional type pocket, where, as shown in Fig. 386, the bottom and both-side edges of the pocket are respectively linked with the front body knit domain by means of tacking.

Fig. 354 through Fig. 369 respectively designate only the changeable portions of those knitting courses made available for the method of composing a knit wear integrated with an additional type pocket according to the first embodiment.

It should be understood however that the actual number of loops corresponding to straight portion of a pocket composed by processing those knitting courses shown in Fig. 354 through Fig. 369 does not coincide with the actual number of those loops formed in those knitting courses shown in Fig. 32 through Fig. 45 made available for executing the method according to the first embodiment. This is solely because the "4-piece needle-bed" type flat knitting machine available for executing the eleventh embodiment of the invention provides the front needle beds and the rear needle beds by way of deviating their positions by a half pitch. Except for this deviation, the structure of the flat knitting machine available for executing the method related to the eleventh embodiment is identical to that of the flat knitting machine made available for executing the method according to the first embodiment of the invention.

Concretely, when the knitting course shown in Fig. 387 is activated, a feeder 3 feeds knitting yarns to those knitting needles A through F of a needle bed FD and g through o of a needle bed FU to have those needles respectively form loops. Next, when the knit-

tig course shown in Fig. 388 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then, those loops engaged with the knitting needles g through o of the needle bed FU are respectively transferred to those knitting needles G through O of the needle bed BD.

Next, when the knitting course shown in Fig. 389 is activated, those needle beds BU and BD in the rear position are respectively brought back to the right by one-half pitch, and then causes the feeder 3 to feed knitting yarns to those knitting needles P through A in the state being tacked with a knitting needle Q of the needle bed FD. Next, when the knitting course shown in Fig. 390 is activated, those needle beds BU and BD in the rear position are respectively shifted to the right by one-half pitch, and then, those loops engaged with the knitting needles G through O of the needle bed BD are respectively transferred to those knitting needles h through p of the needle bed FU.

Next, when the knitting course shown in Fig. 391 is activated, another feeder 4 feeds knitting yarns to those knitting needles V through Q of the needle bed FD and those knitting needles p through h of the needle bed FU to have these needles respectively form loops. Next, when the knitting course shown in Fig. 392 is activated, those needle beds BU and BD in the rear position are respectively shifted to the right by one-half pitch, and then, those knitting needles h through p of the needle bed FU are respectively transferred to those loops engaged with the knitting needles G through O of the needle bed BD.

Next, when the knitting course shown in Fig. 393 is activated, those needle beds BU and BD in the rear position are respectively brought back to the left by one-half pitch, and then causes the feeder 4 to feed knitting yarns to those knitting needles G through V in the state of being tacked with a knitting needle F of the needle bed FD before causing those needles G through V to respectively form loops. Next, when the knitting course shown in Fig. 394 is activated, those needle beds BU and BD in the rear position are respectively shifted to the left by one-half pitch, and then causes those loops engaged with those knitting needles G through O of the needle bed BD to be transferred to those knitting needles g through o of the needle bed FU.

Henceforth, the flat knitting machine repeatedly executes operations for processing those knitting courses shown in Fig. 387 through Fig. 394 before eventually composing the straight portion of a pocket 2.

In consequence, as shown in Fig. 386, the both-side edges of the pocket 2 are integrally linked with the front body knit 7 by means of tacking.

The Twelveth Embodiment

As described earlier, the method according to the eleventh embodiment of the invention for composing a knit wear integrally provided with an additional type pocket makes use of the conventionally called "4-piece needle-bed" type flat knitting machine which is furnished with four needle beds in file each storing a number of knitting needles on the top surface by permitting these knitting needles to slidably move back and forth, where these needle beds are respectively disposed in opposition from each other in the "/ \ " shape formation. On the other hand, the twelveth embodiment of the invention provides the method of composing a knit wear integrally provided with an additional-type pocket by operating a conventionally called "2-piece needle-bed" type flat knitting machine which is furnished with a pair of needle beds on the top surface each storing a number on the top each storing a number of knitting needles on the top surface by permitting these knitting needles to slidably move back and forth, where these knitting needles are also disposed in opposition from each other in the "/ \ " shape formation. Concretely, using the 2-piece needle-bed type flat knitting machine, the twelveth embodiment of the invention provides the method of composing a knitted wear integrated with an additional type pocket having the bottom and both-side edges of the pocket integrally being linked with the front-body knit domain by means of knitting yarns and knit in the same way as was executed by the "4-piece needle-bed" flat knitting machine made available for the eleventh embodiment of the invention.

More particularly, as shown in Fig. 395, of those knitting needles A through o of a front needle bed F, those alternate knitting needles including A, C, E, ... k, m, and o jointly operate themselves in place of the needle bed FD disposed on the bottom side in the front position made available for the eleventh embodiment, whereas those remaining alternate knitting needles B, D, F, ... h, l, and n jointly operate themselves in place of the needle bed FU disposed on the top side in the front position made available for the eleventh embodiment. Likewise, of those knitting needles A through o of a needle bed B in the rear position, those alternate knitting needles including A, C, E, ... k, m, and o jointly operate themselves in place of a needle bed BD disposed on the bottom side in the rear position made available for the eleventh embodiment, whereas the remaining alternate knitting needles including B, D, F, ... h, l, and n jointly operate themselves in place of a needle bed BU disposed on the top side in the rear position made available for the eleventh embodiment, respectively.

Concretely, Fig. 395 corresponds to Fig. 387 made available for the eleventh embodiment described above. Those knitting courses shown in Fig. 396 through Fig. 402 respectively and sequentially corre-

spond to those knitting courses shown in Fig. 354 through Fig. 396 made available for the eleventh embodiment. Furthermore, like the eleventh embodiment, the both-side edges of pocket 2 are integrally linked with the front-body knit 7 via tacking means as shown in Fig. 386, and yet, knit organization of the front-body knit domain concealed in the knit of pocket region is superficially formed, thus eventually providing a quality pocket abundant in bulkiness characteristic of the additional type pocket.

Claims

1. A method of composing a knitted fabric integrally being provided with an additional-type pocket, which executes those sequential knitting processes on the way of continuously composing base knit fabric and pocket-forming knit fabric including the following;
 - a process for forming an extended knit fabric solely available for composing said pocket by branching said extended knit fabric from said base knit fabric;
 - a process for forming an additional-type pocket by integrally composing said base knit fabric and said pocket-forming knit fabric in the state in which lateral sides of said pocket-forming knit composed of said extended knit fabric is linked with said base knit fabric; wherein superficial knit composition of said pocket-forming knit fabric is composed in the state exactly being identical to superficial knit composition of said base knit fabric on which said pocket is formed.
2. A method of composing a knitted fabric integrally being provided with an additional-type pocket, wherein said method uses a flat knitting machine furnished with two pairs of needle beds disposed in file to compose base knit fabric by operating either of said two pairs of needle beds, and then composes a knit fabric available for making up a pocket by operating the other pair of needle beds, and wherein superficial knit organization of said pocket-forming knit fabric is composed in the state exactly being identical to superficial knit composition of said base knit fabric on which said pocket is formed.
3. A method of composing a knitted fabric integrally being provided with an additional-type pocket according to Claim 1 or 2, wherein linkage between said base knit fabric corresponding to lateral sides of said pocket with said pocket-forming knit fabric is materialized by means of tacking.
4. A method of composing a knitted fabric integrally being provided with an additional-type pocket ac-

cording to Claim 1 or 2, wherein linkage between said base knit fabric corresponding to lateral sides of said pocket and said pocket-forming knit fabric is materialized by arranging knitting yarns to intersect each other.

5. A method of composing a knitted fabric integrally being provided with an additional-type pocket according to Claim 1 or 2, wherein linkage between said base knit fabric corresponding to lateral sides of said pocket and said pocket-forming knit fabric is materialized by arranging knitting yarns and loops to intersect each other.
6. A method of composing a knitted fabric integrally being provided with an additional-type pocket according to Claim 1 or 2, wherein linkage between said base knit fabric corresponding to lateral sides of said pocket and said pocket-forming knit fabric is materialized by means of knitted loops.
7. A method of composing a knitted fabric integrally being provided with an additional-type pocket according to Claims 1 through 6, wherein either of said base knit fabric and said pocket-forming knit fabric is composed of a plurality of carriers.
8. A method of composing a knitted fabric integrally being provided with an additional-type pocket according to Claim 7, wherein at least either of said base knit fabric and said pocket-forming knit fabric is formed by intarsia jacquard knitting means.
9. A knitted fabric which is composed by executing those sequential knitting processes including the following;
 - a process for composing a pocket-forming knit fabric by means of an extended knit fabric branched from base knit fabric; and
 - a process for forming an additional-type pocket by composing base knit fabric domain and knitted fabric available for composing said pocket in the state in which lateral-side domains of said pocket-forming knit fabric is linked with said base knit fabric.

Fig.1

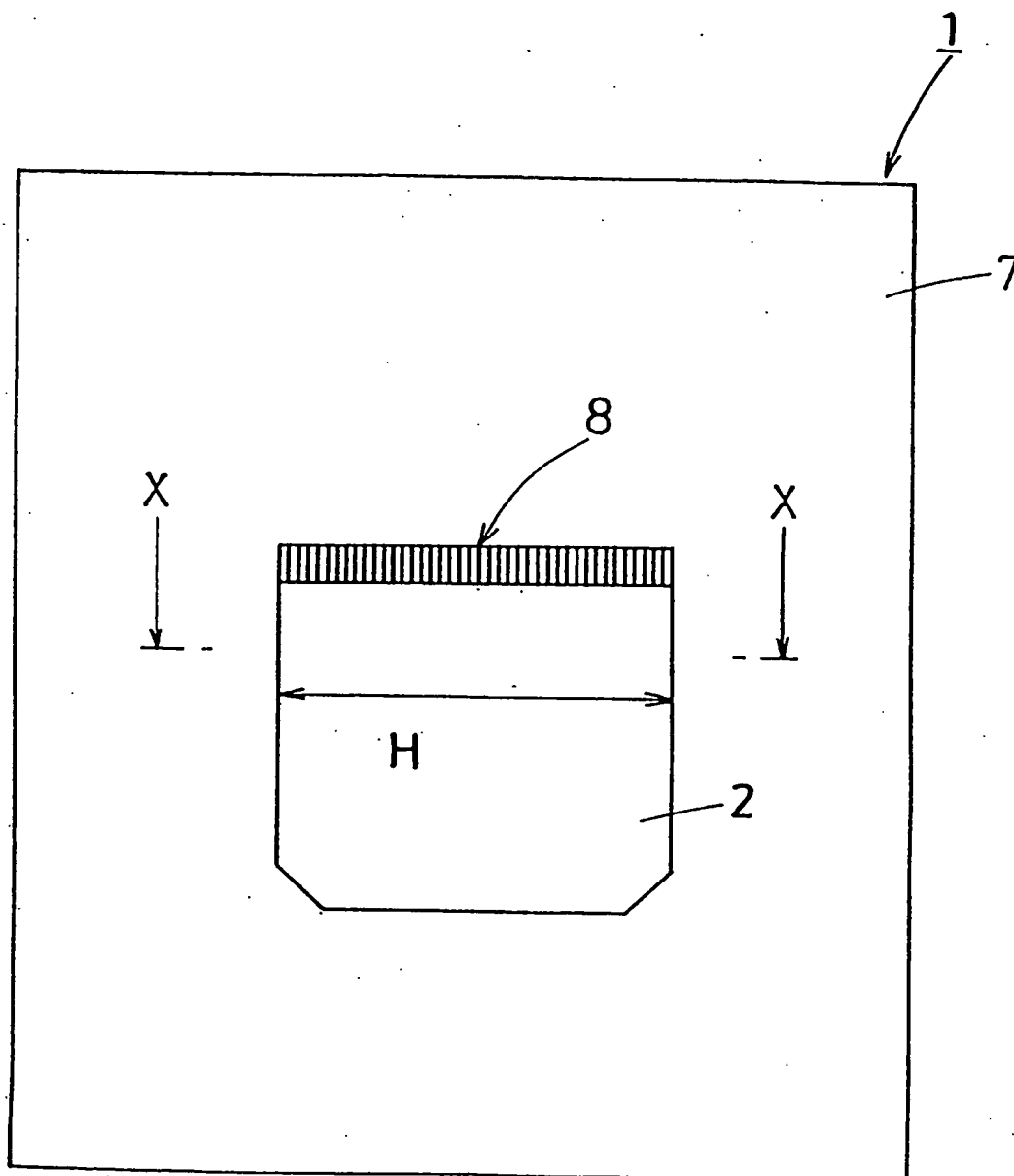


Fig.2

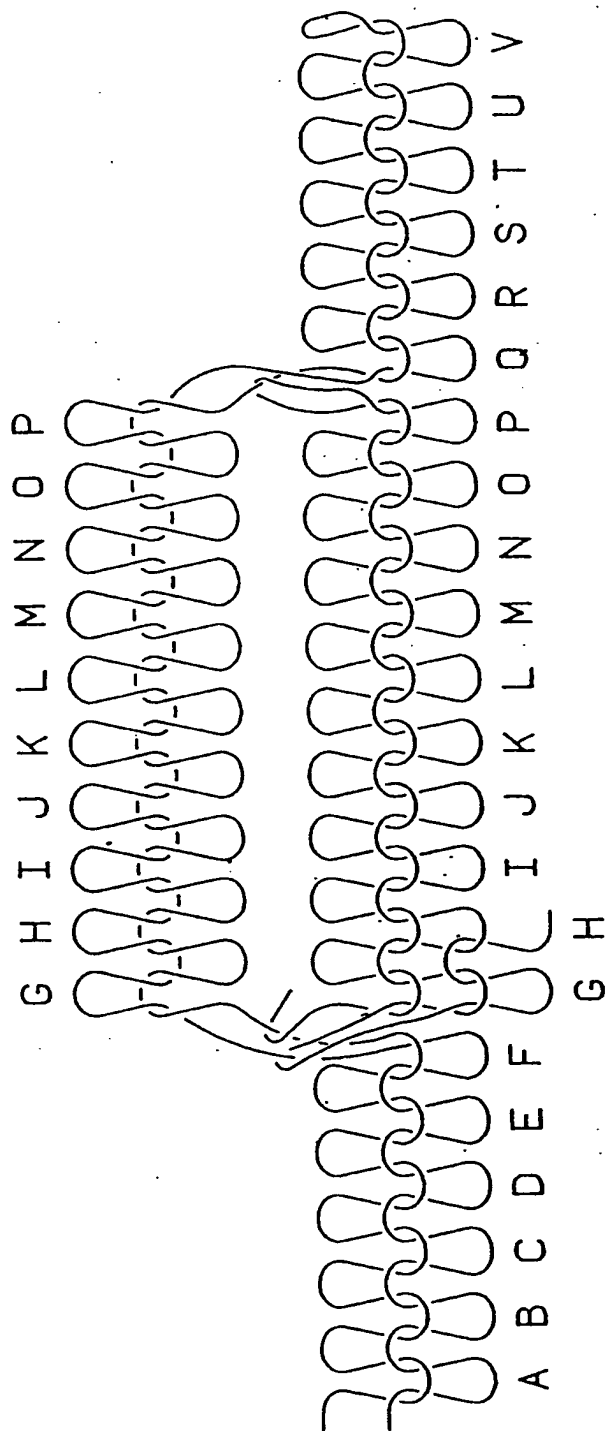


Fig. 3

- ✓ a front stitch tuck
- ⊙ a missed front stitch tuck
- ↑ feeder
- ↓ feeder
- ⊖ knitting of a front stitch
- ⊖ knitting of a back stitch
- ⊖ an empty needle knit miss
- ⊖ overlaying a front stitch to an empty needle knit miss
- a miss
- ⊗ split knit
- ⊗ split knit
- ↑ transferring of a loop, F to B
- ↓ transferring of a loop, B to F
- ⊙ overlaying a front stitch to another front stitch
- ⊙ an empty knit

Fig. 4

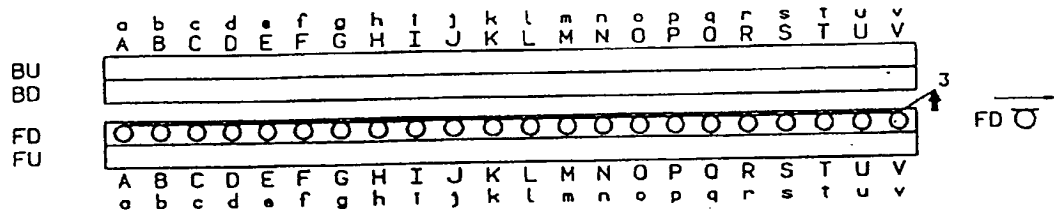


Fig. 5

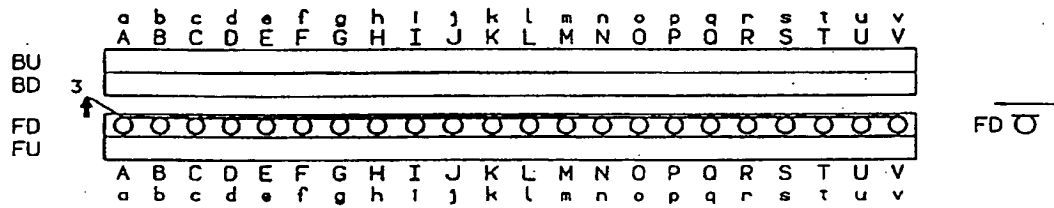


Fig. 6

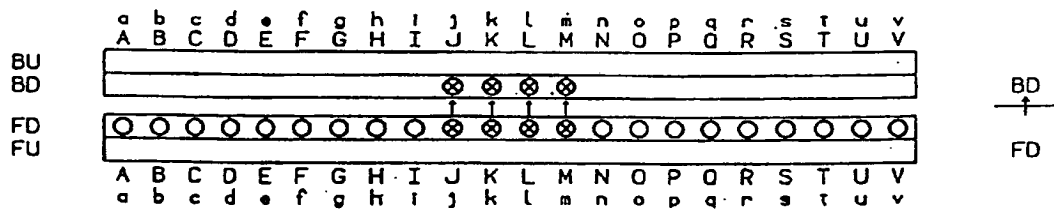


Fig. 7

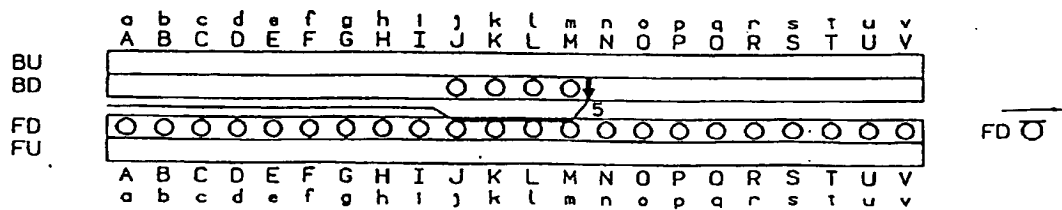


Fig. 8

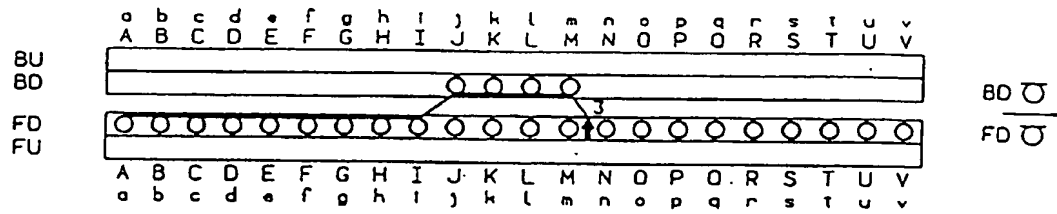


Fig. 9

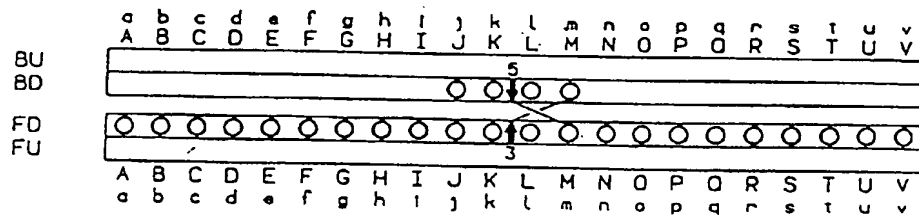


Fig. 10

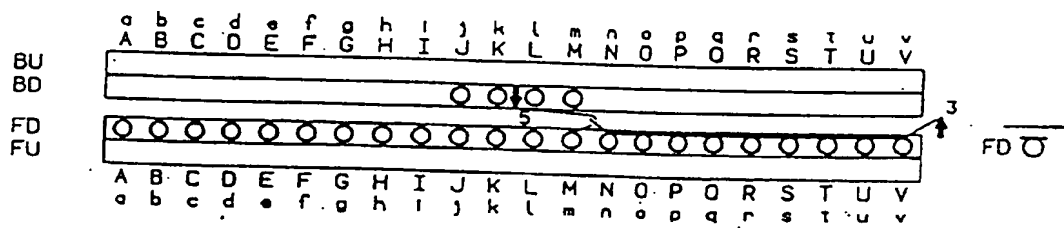


Fig. 11

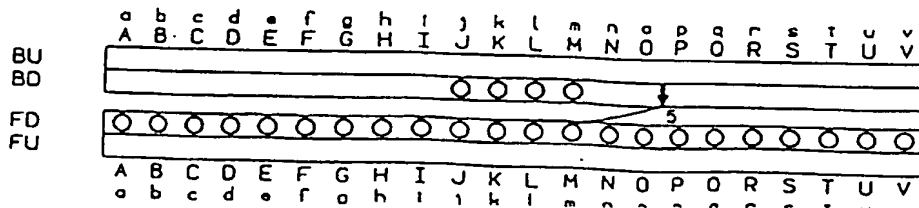


Fig. 12

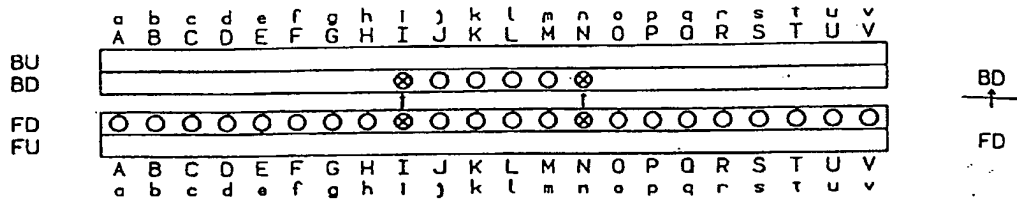


Fig. 13

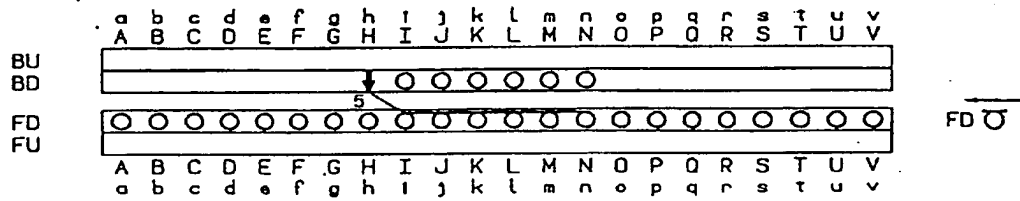


Fig. 14

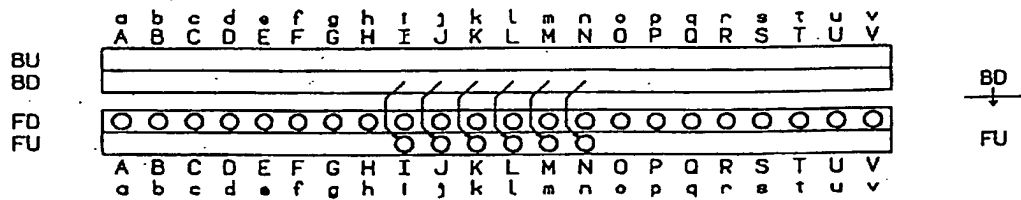


Fig. 15

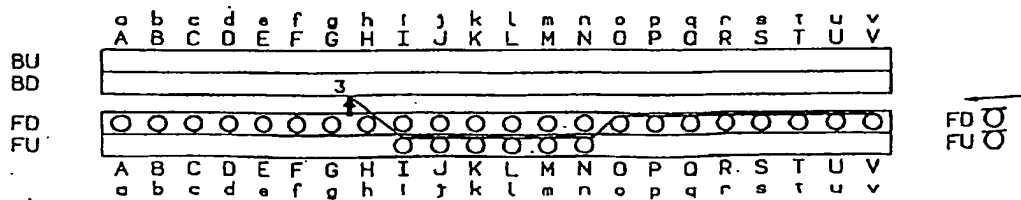


Fig. 16

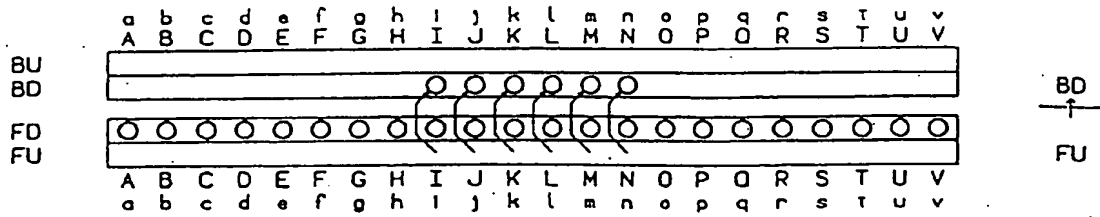


Fig. 17

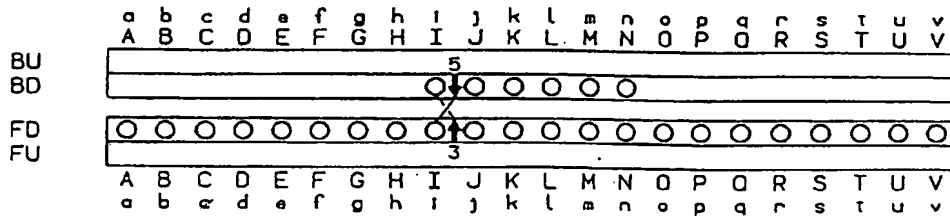


Fig. 18

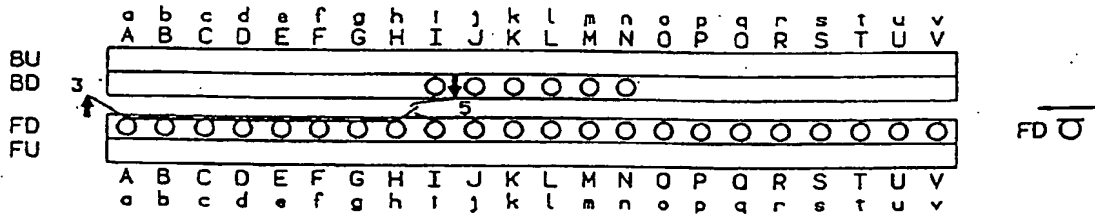


Fig. 19

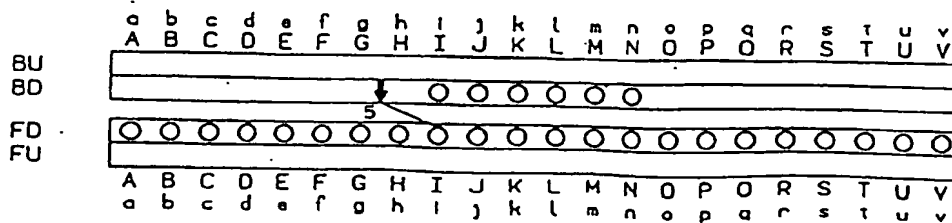


Fig. 20

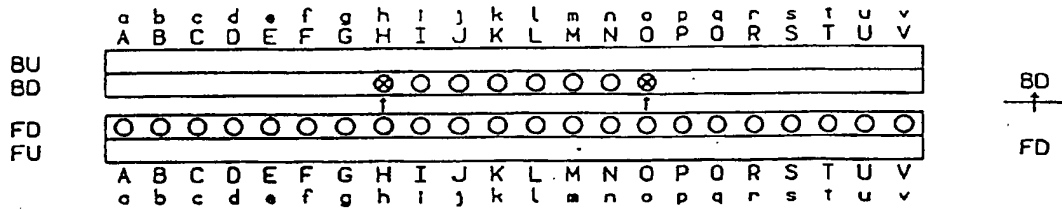


Fig. 21

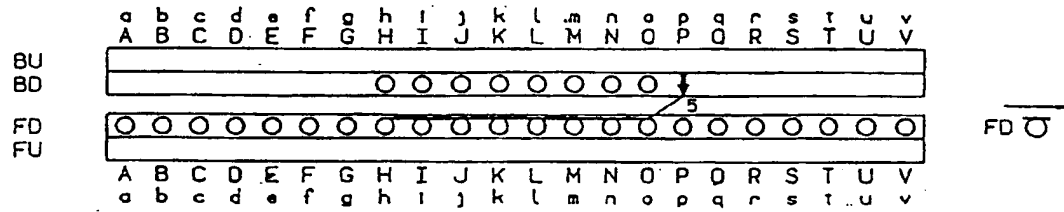


Fig. 22

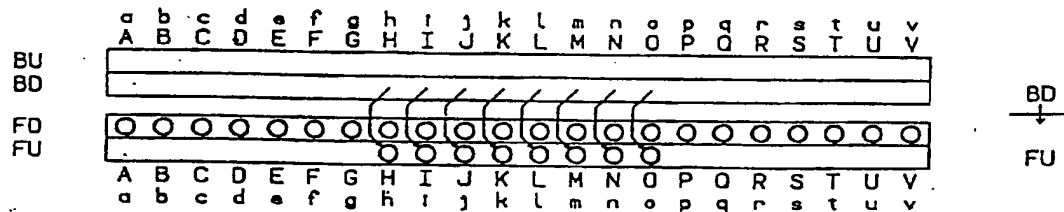


Fig. 23

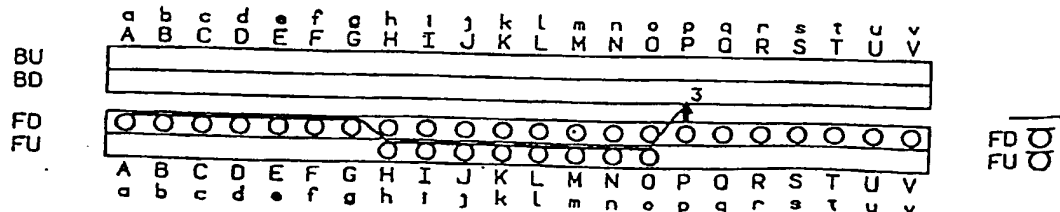


Fig. 24

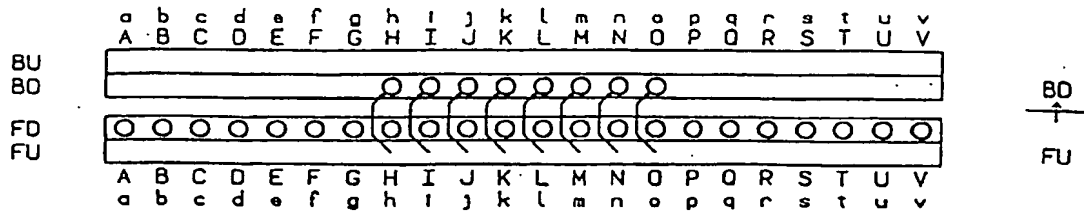


Fig. 25

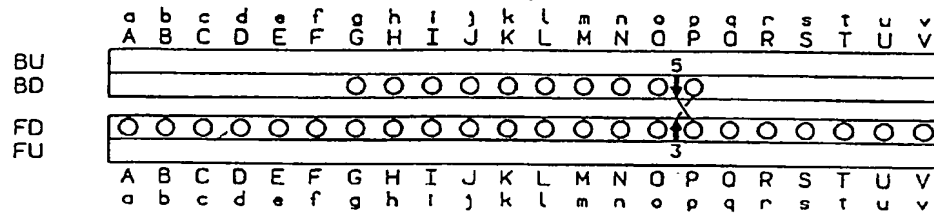


Fig. 26

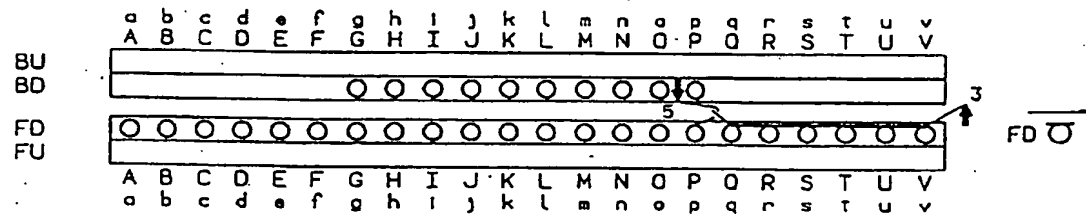


Fig. 27

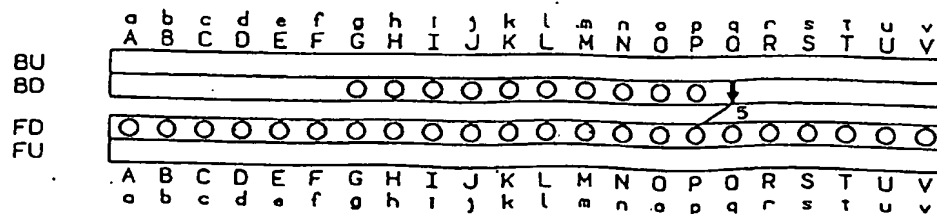


Fig. 28

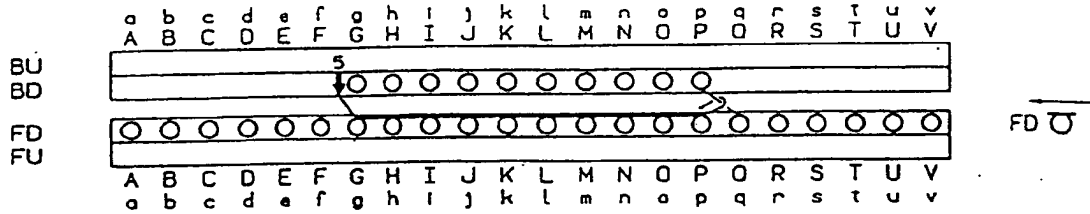


Fig. 29

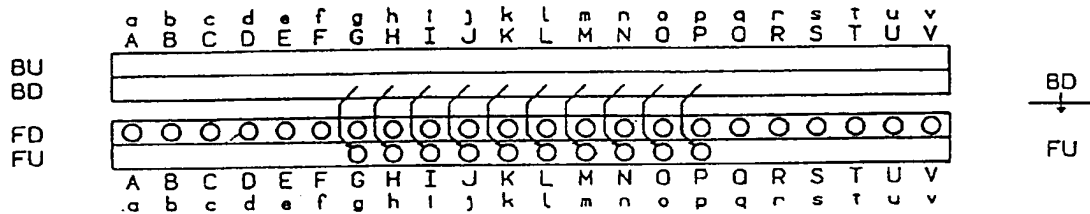


Fig. 30

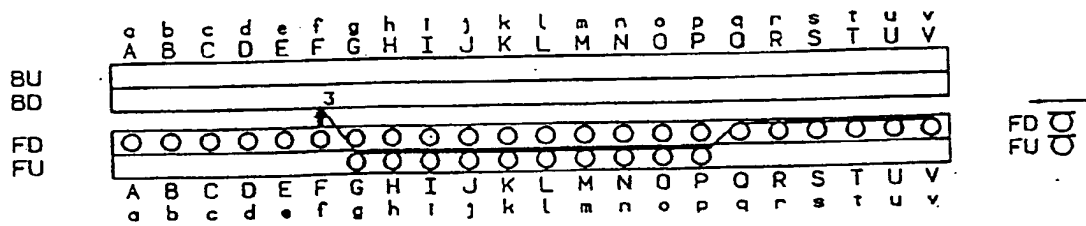


Fig. 31

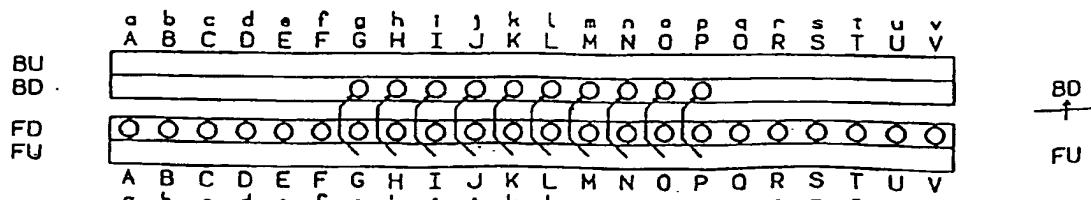


Fig. 32

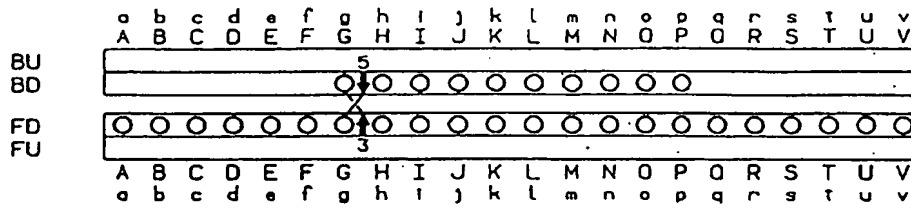


Fig. 33

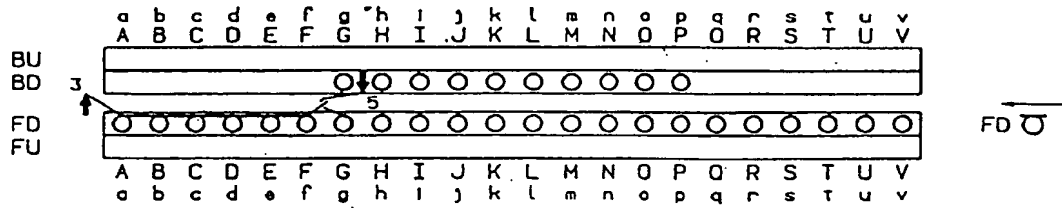


Fig. 34

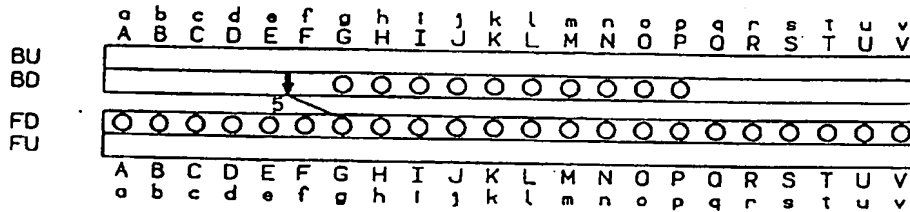


Fig. 35

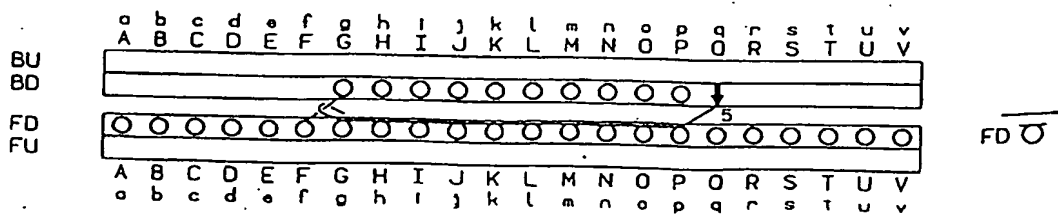


Fig. 36

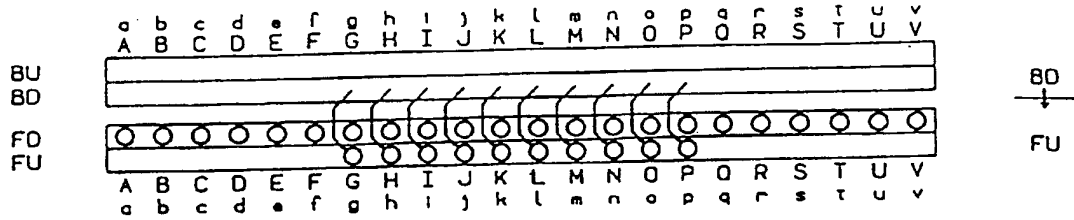


Fig. 37

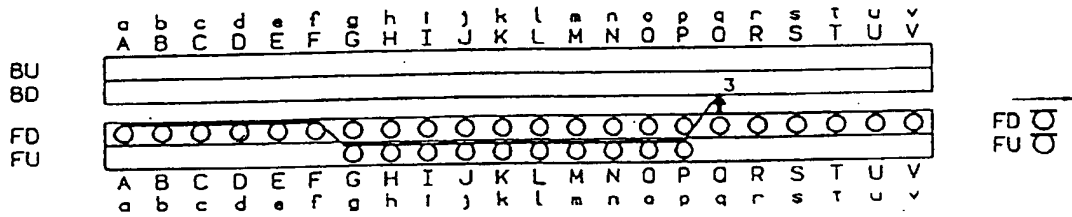


Fig. 38

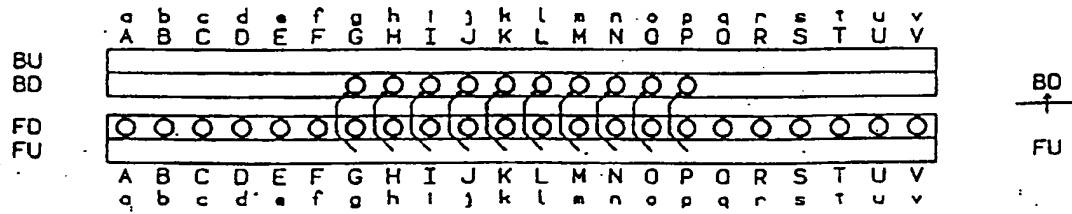


Fig. 39

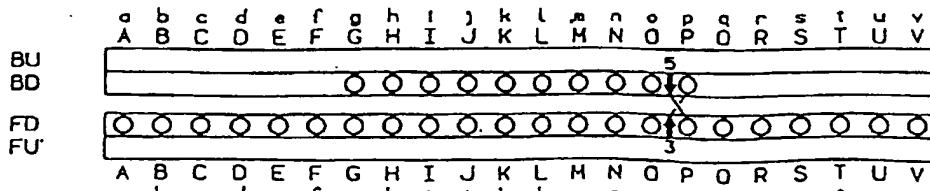


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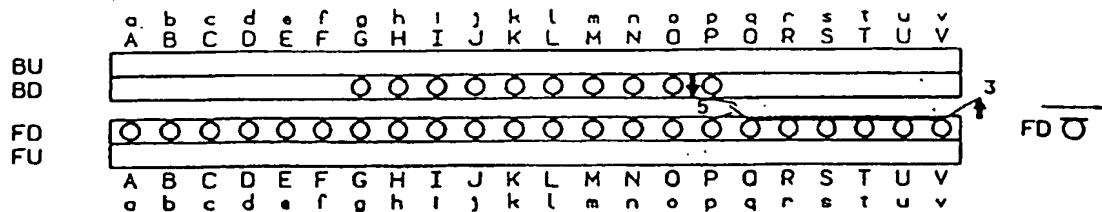


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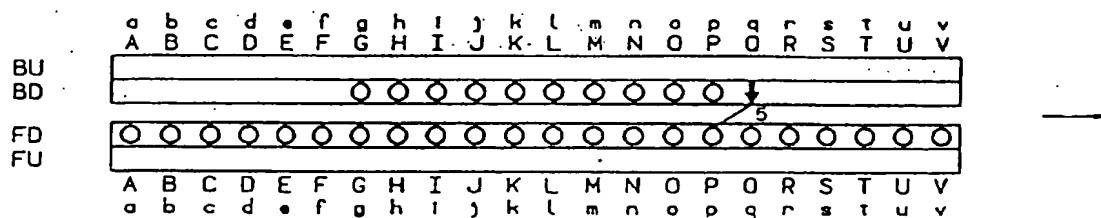


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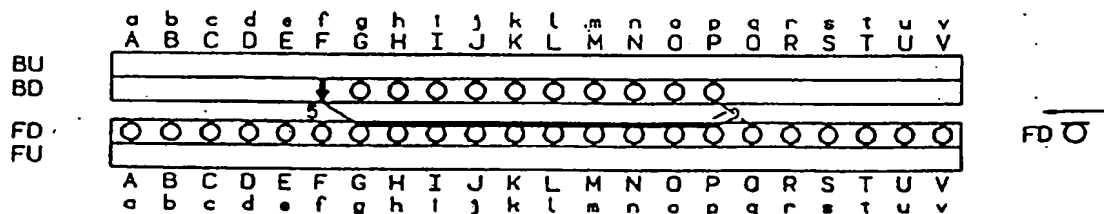


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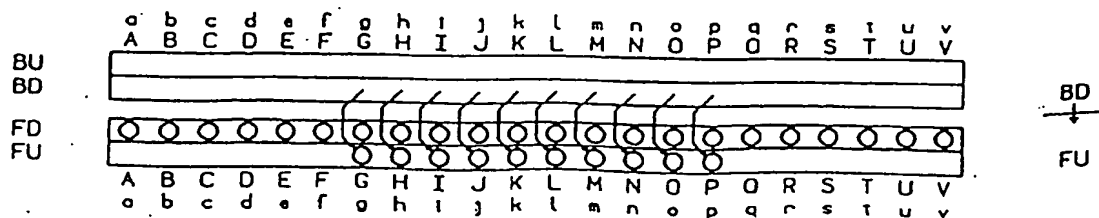


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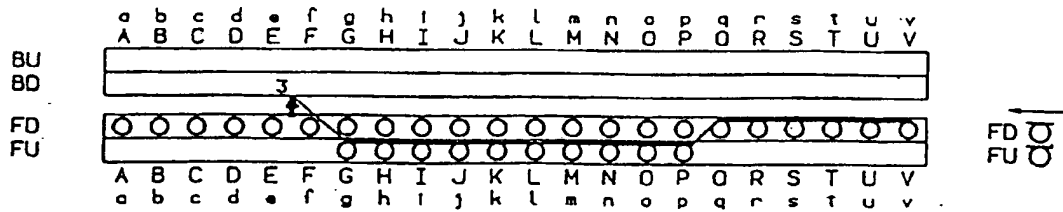


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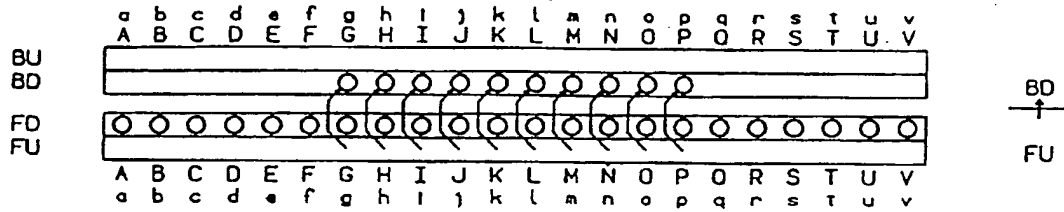


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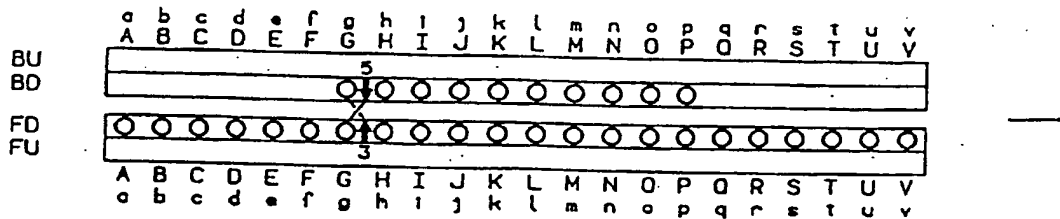


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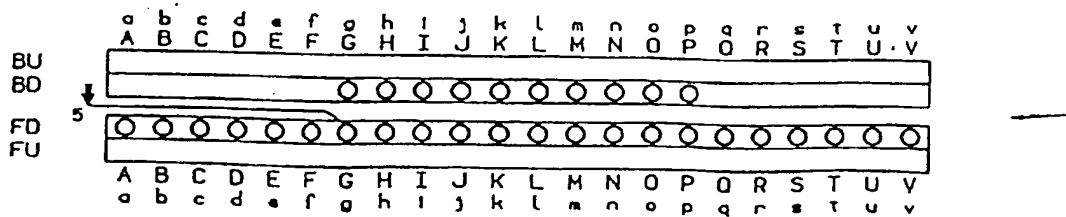


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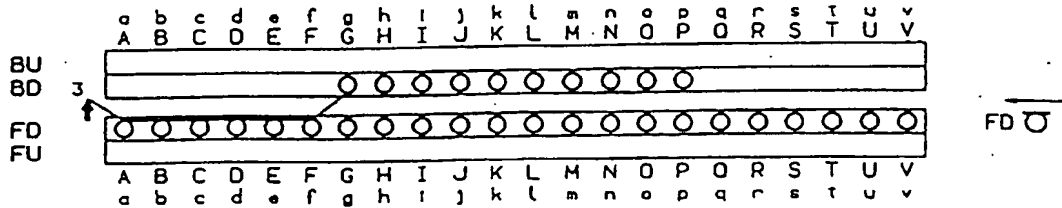


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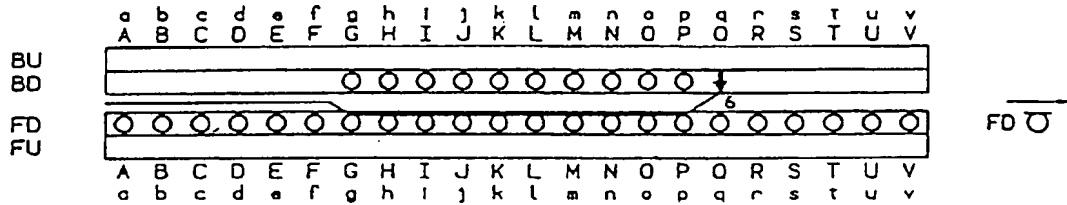


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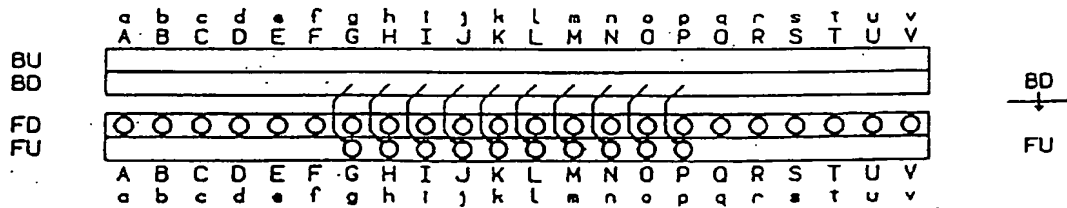


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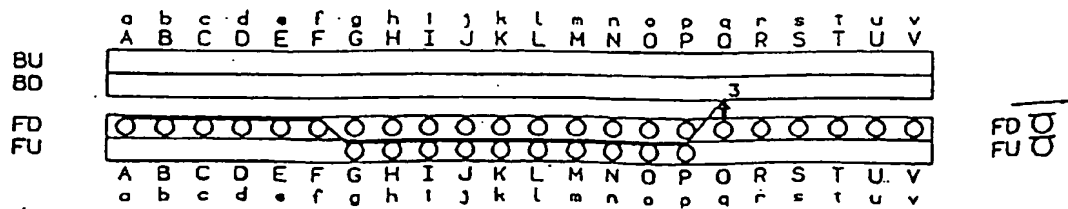


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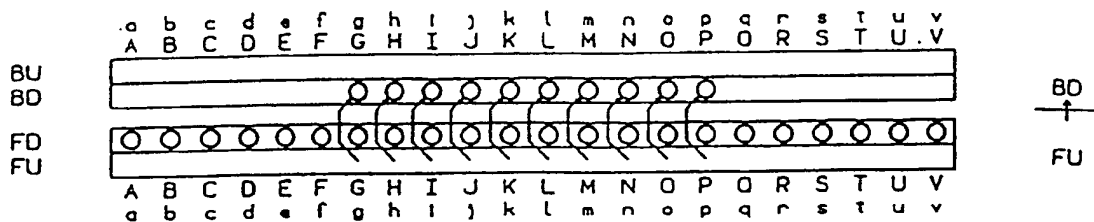


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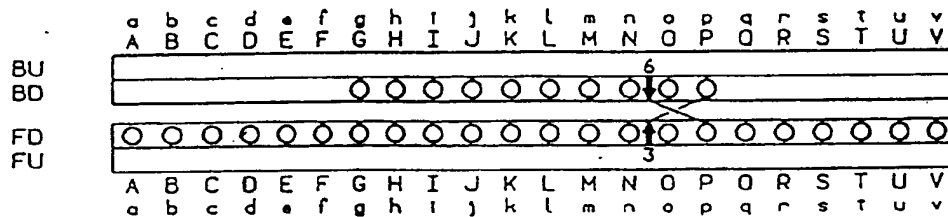


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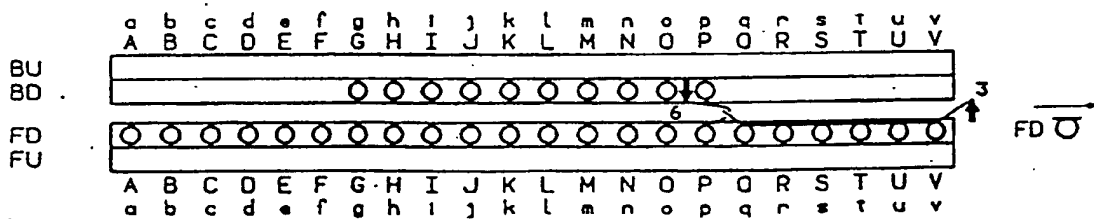


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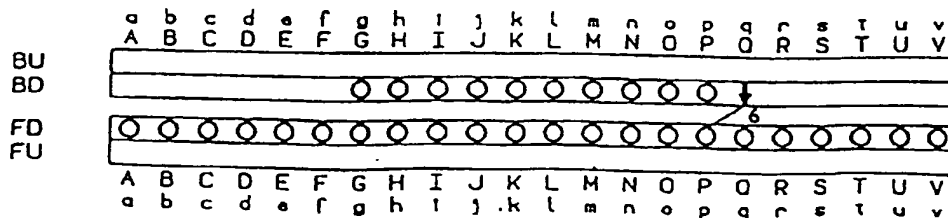


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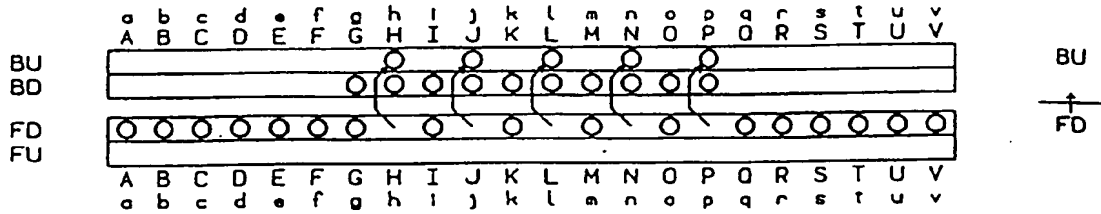


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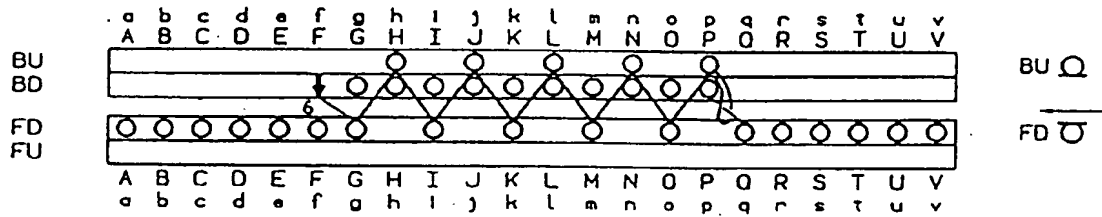


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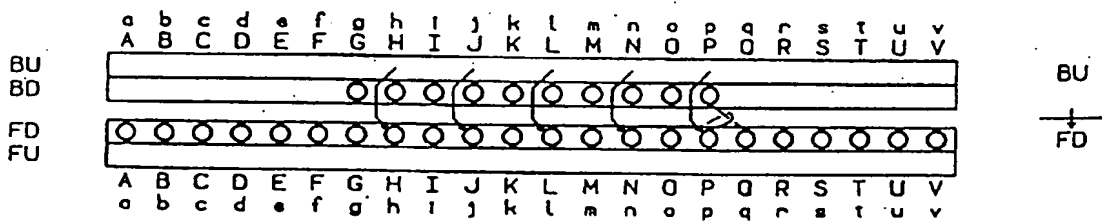


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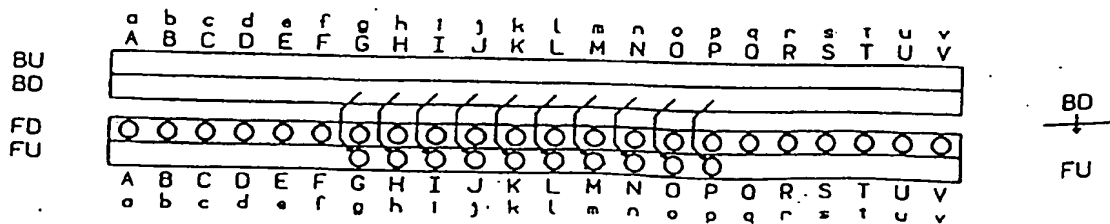


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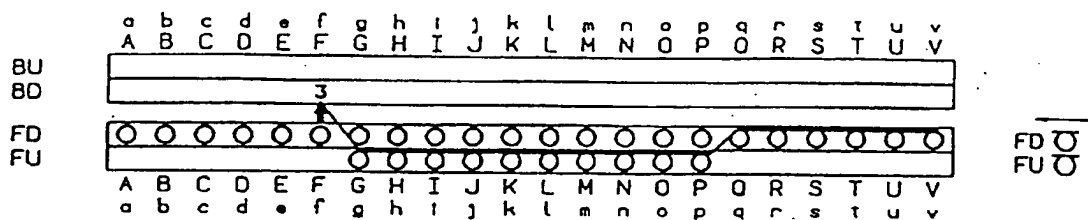


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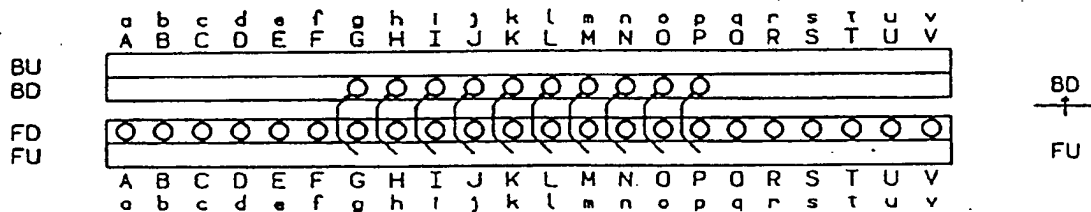


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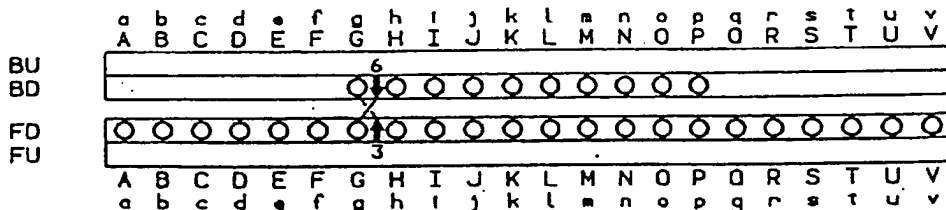


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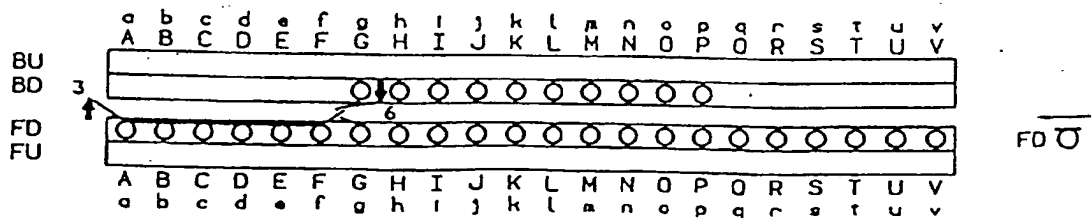


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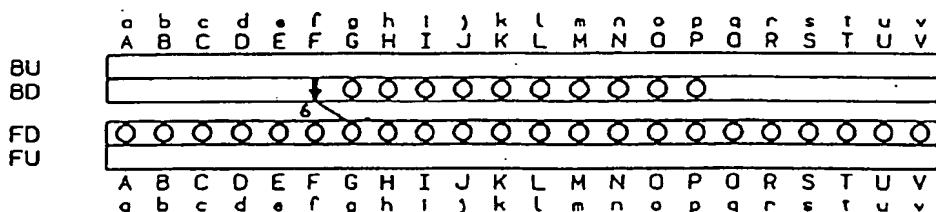


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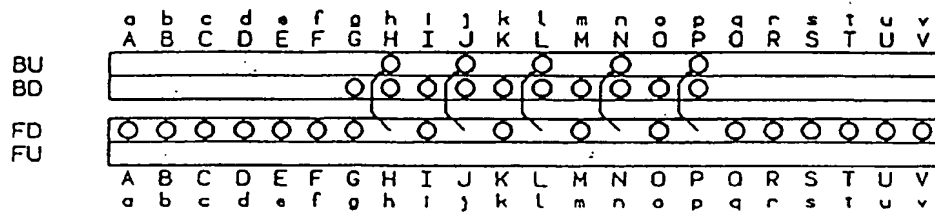


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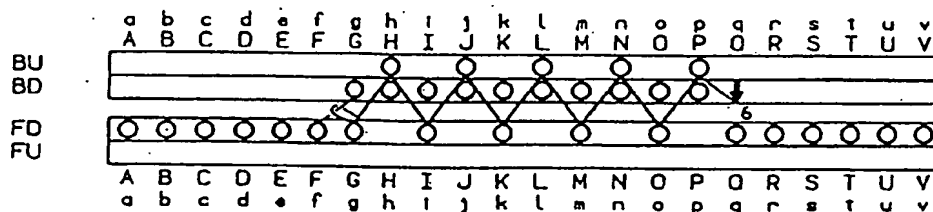


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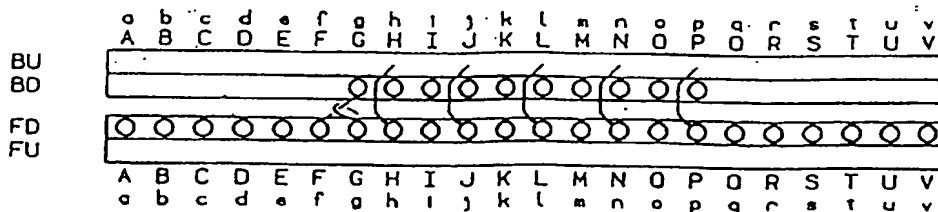


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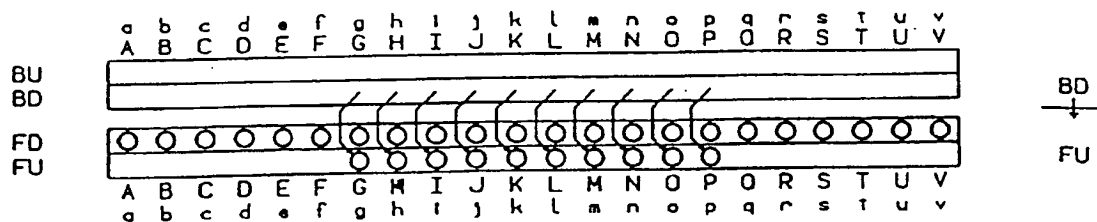


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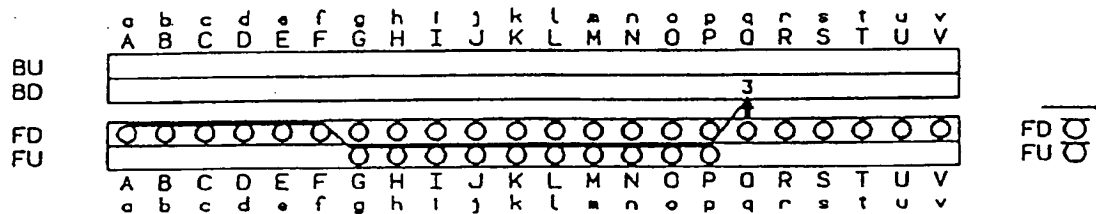


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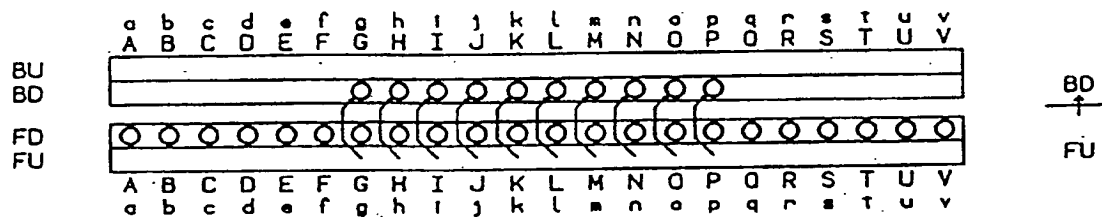


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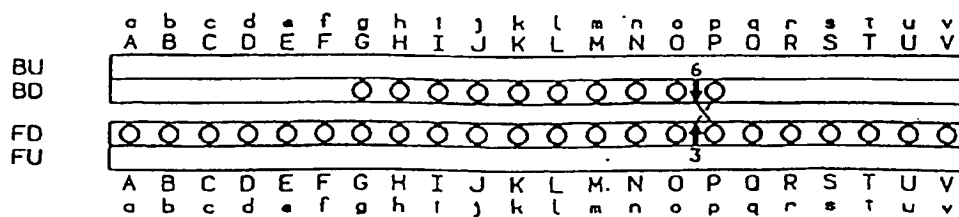


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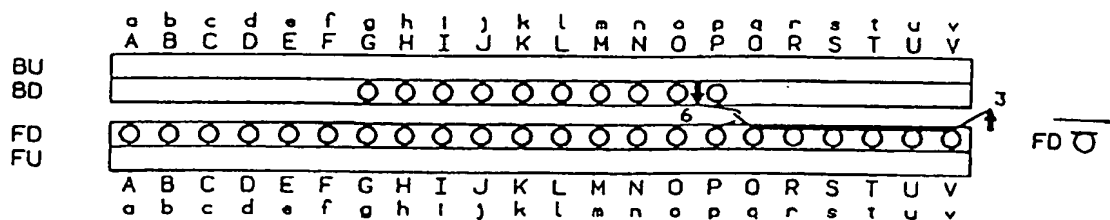


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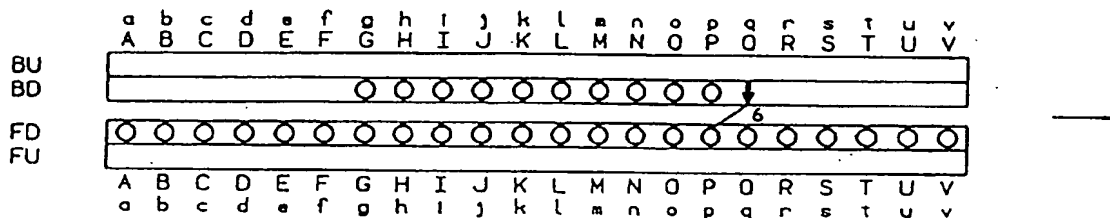


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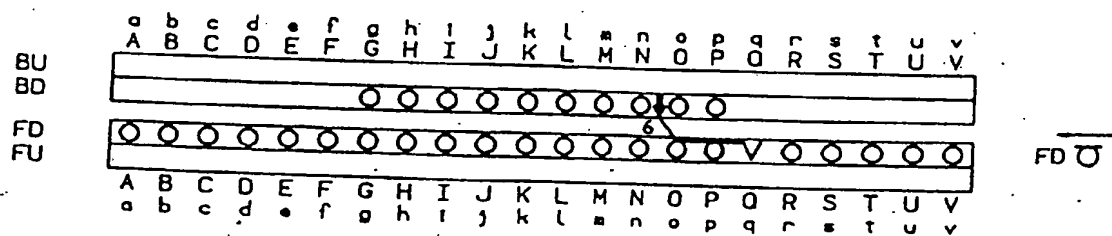


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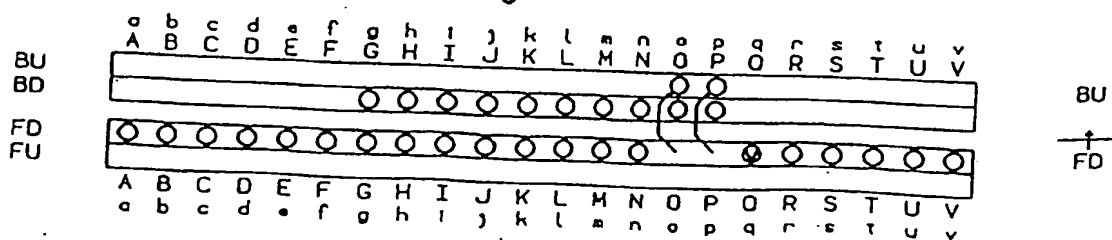


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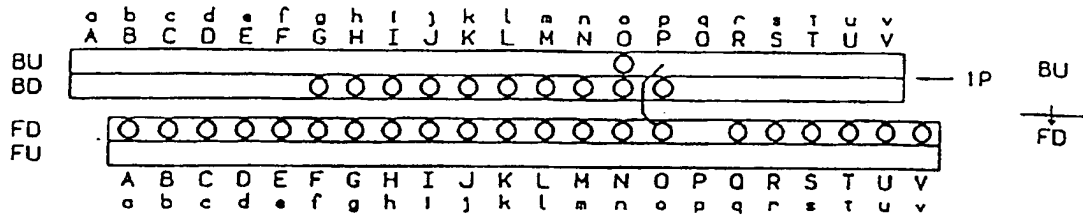


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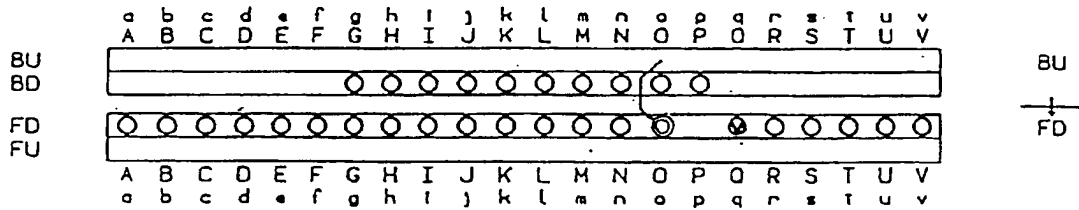


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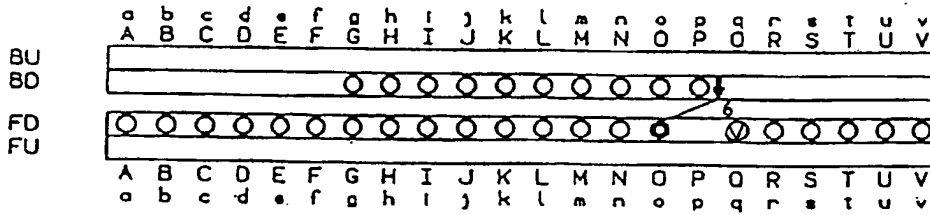


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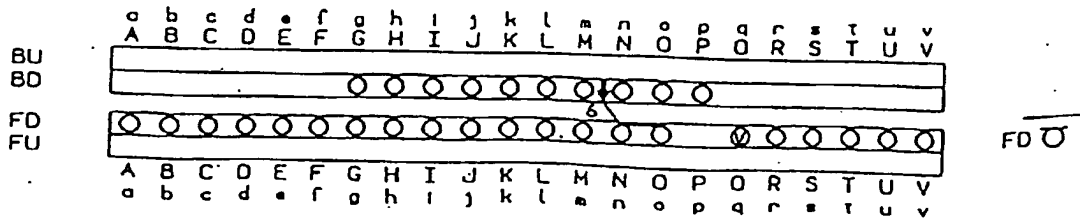


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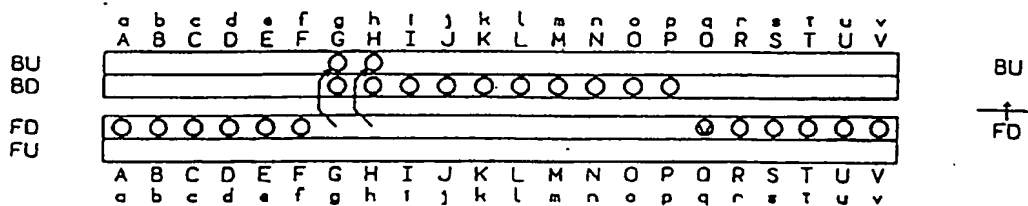


Fig. 81

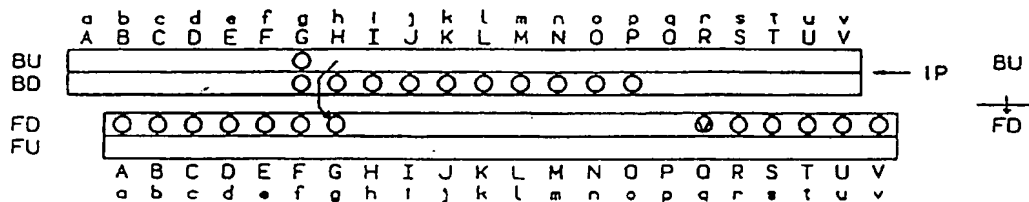


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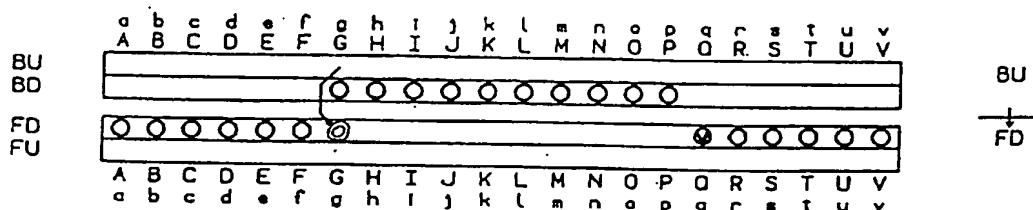


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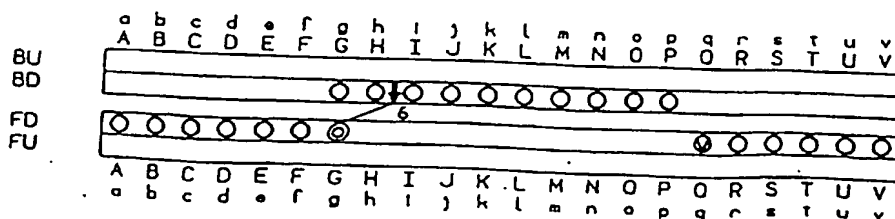


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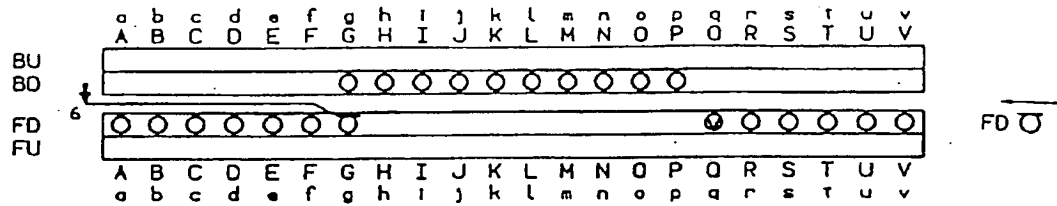


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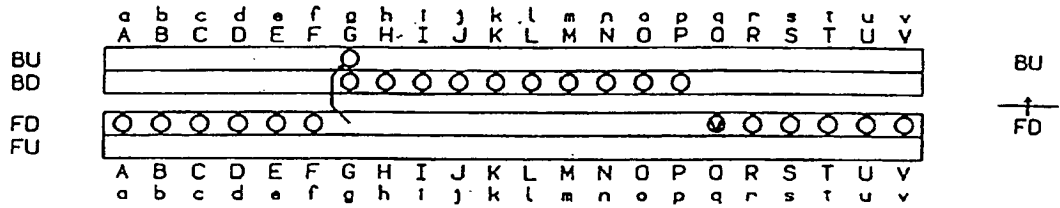


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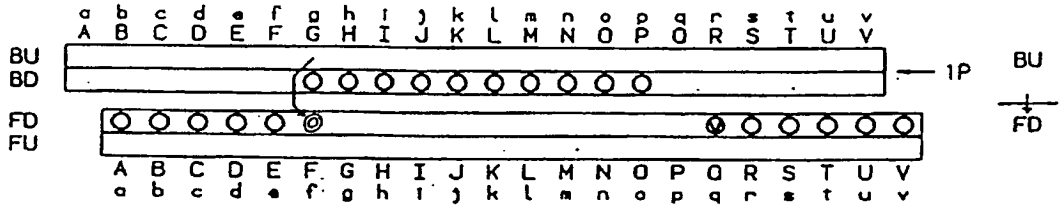


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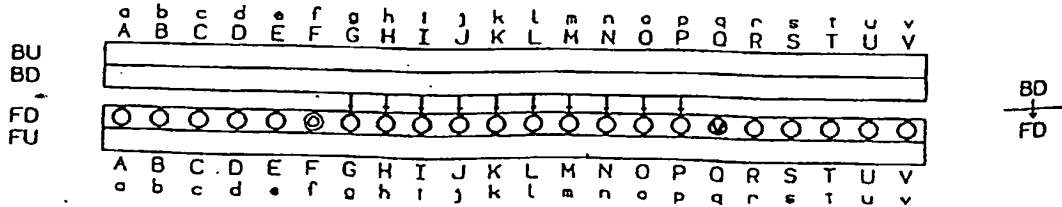


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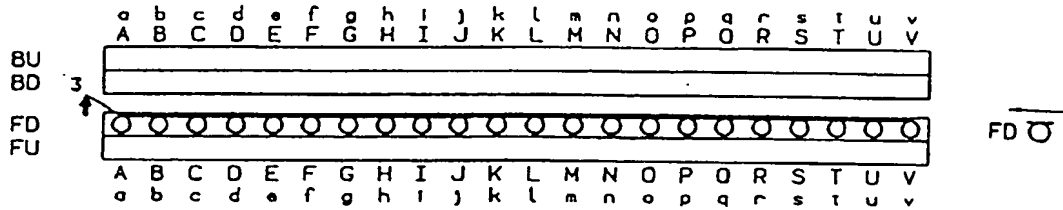


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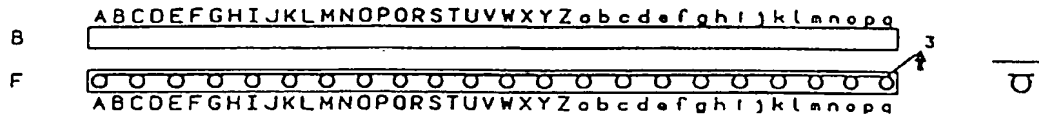


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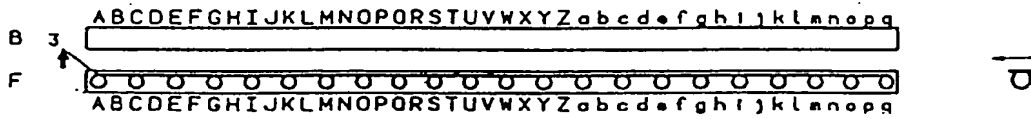


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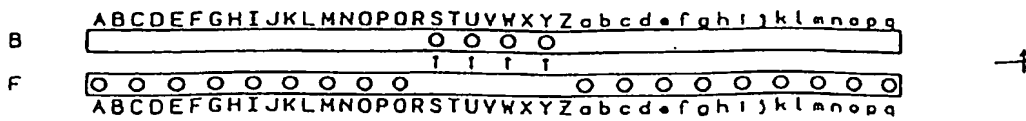


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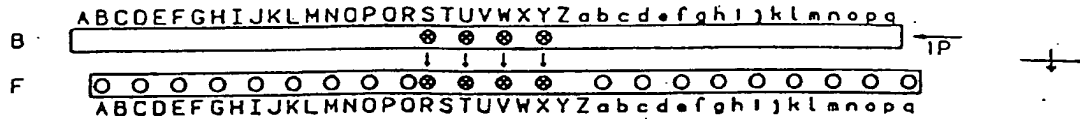


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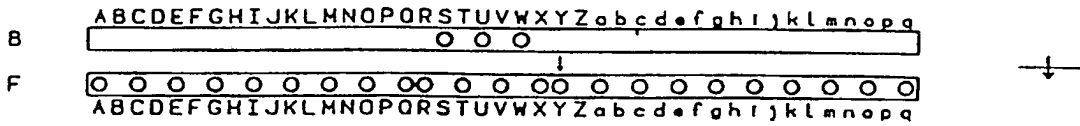


Fig. 94

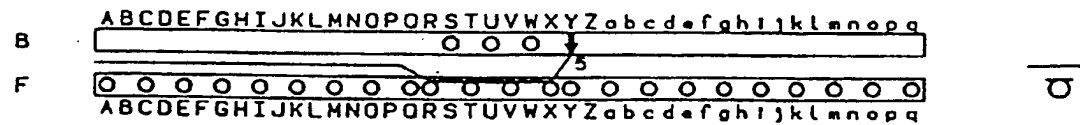


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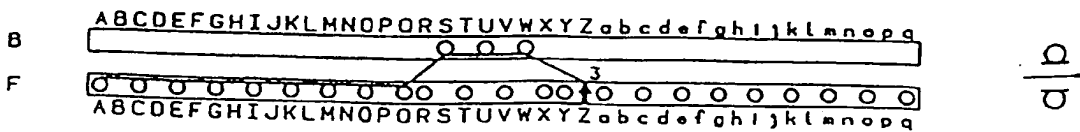


Fig. 96

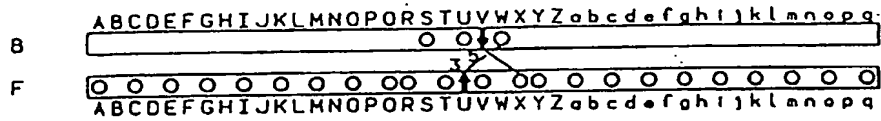


Fig. 97

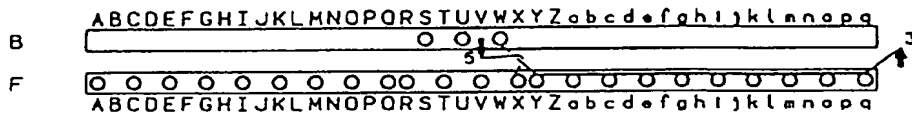


Fig. 98

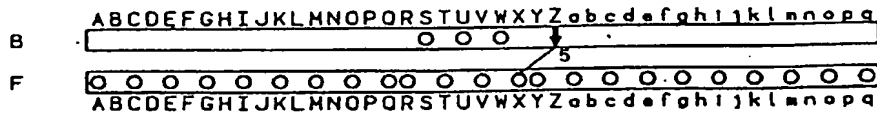


Fig. 99

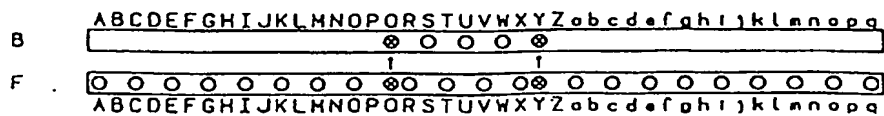


Fig. 100

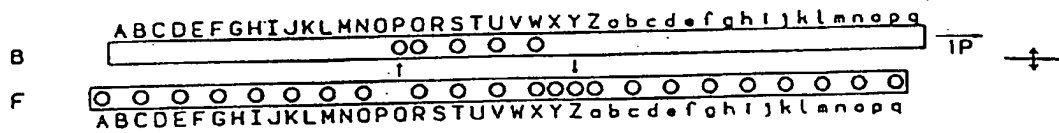


Fig. 101

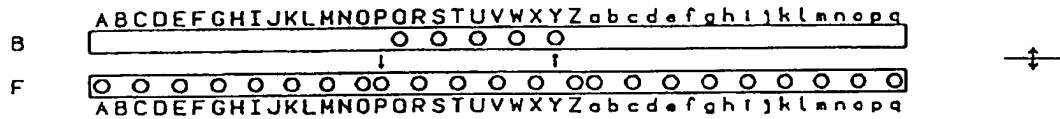


Fig. 102

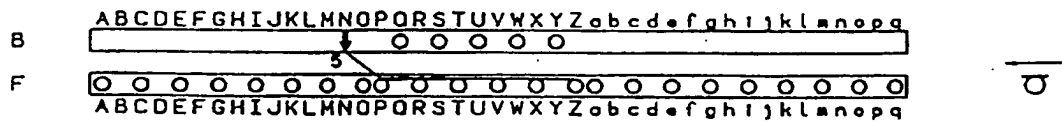


Fig. 103

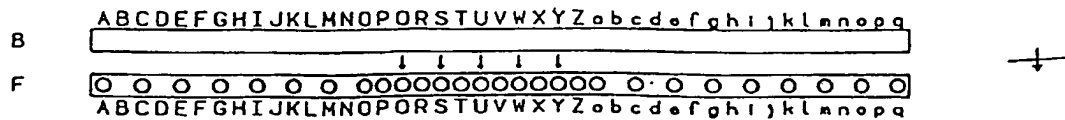


Fig. 104

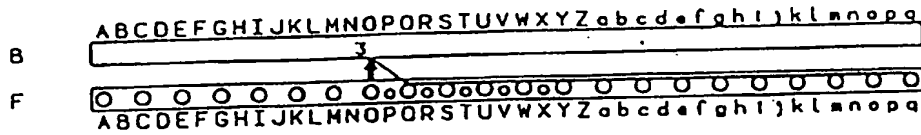


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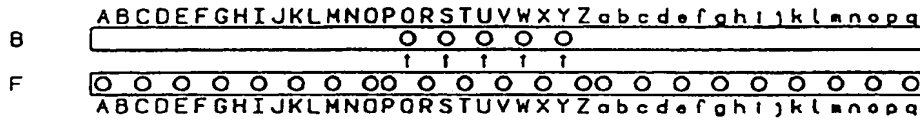


Fig. 106

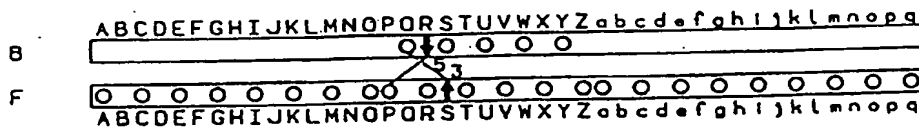


Fig. 107

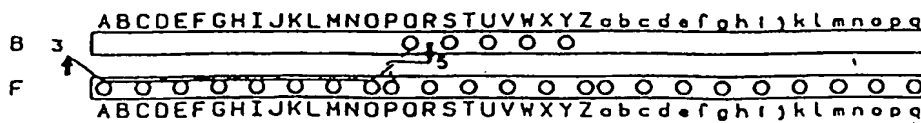


Fig. 108

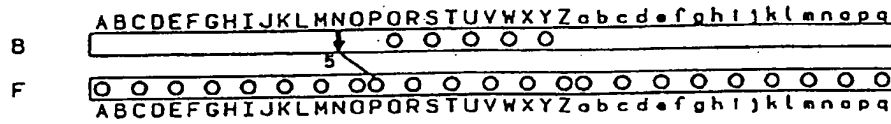


Fig. 109

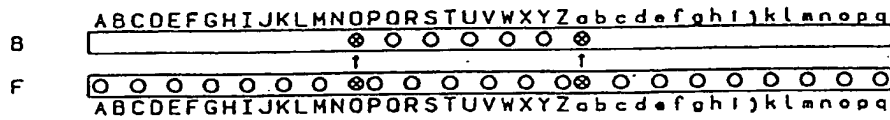


Fig. 110

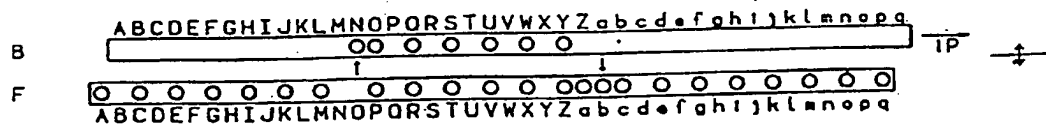


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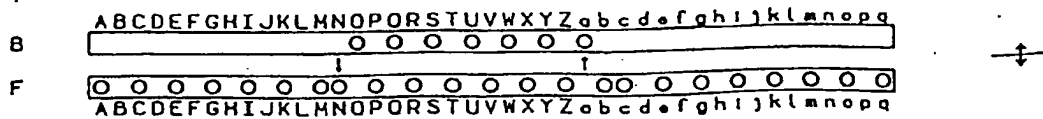
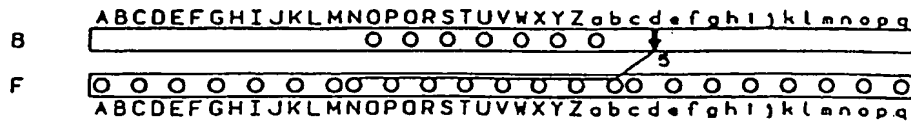
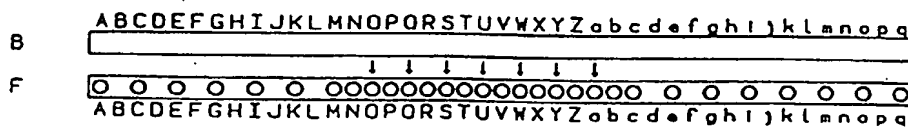


Fig. 112



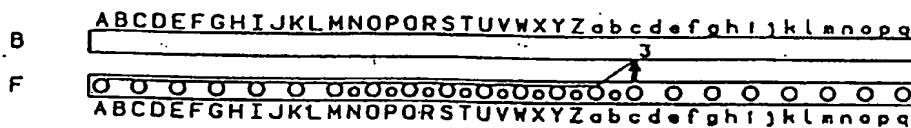
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Fig. 113



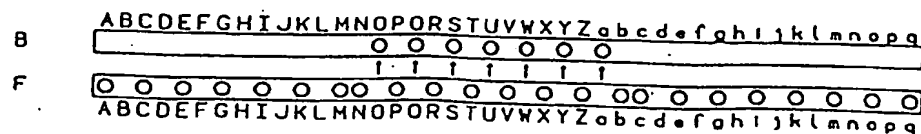
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Fig. 114



U

Fig. 115



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Fig. 116

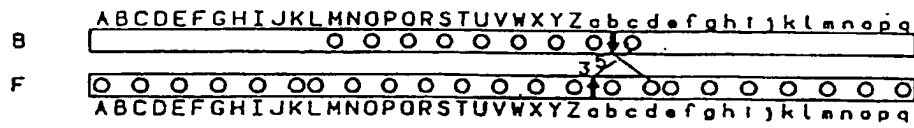


Fig. 117

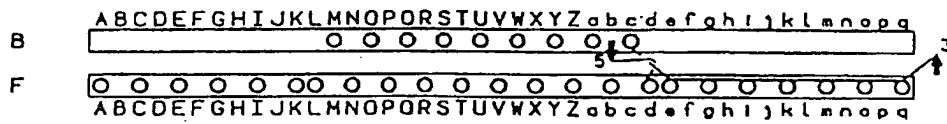


Fig. 118

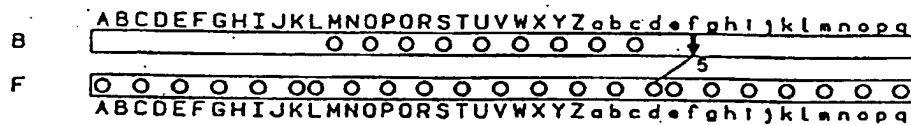


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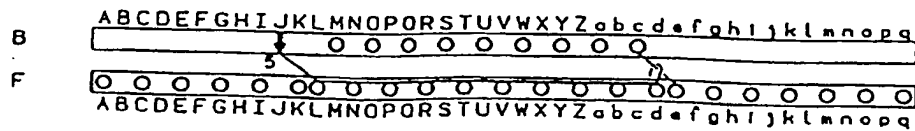


Fig. 120

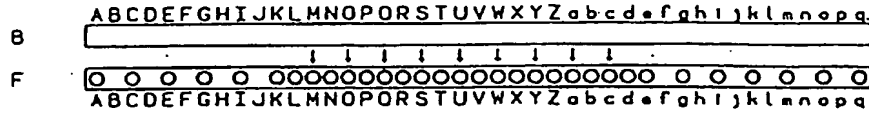


Fig. 121

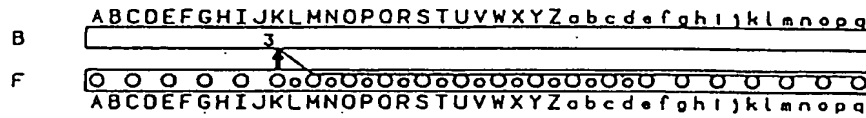


Fig. 122

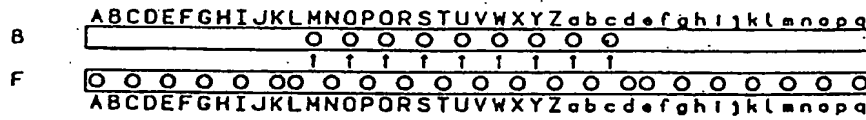


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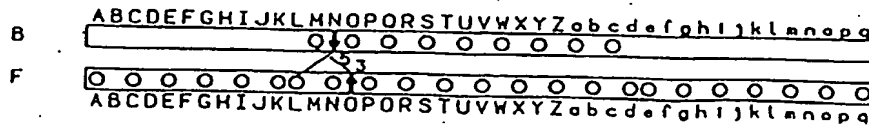


Fig. 124

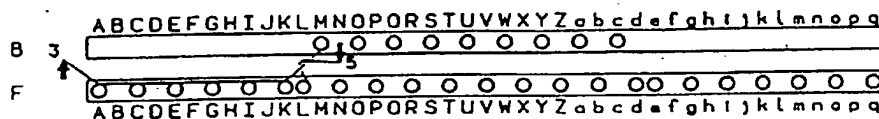


Fig. 125

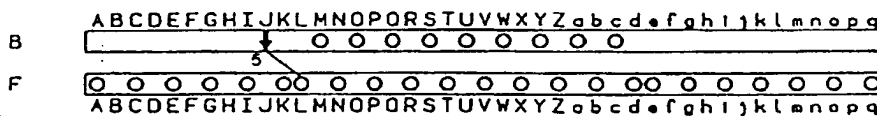


Fig. 126

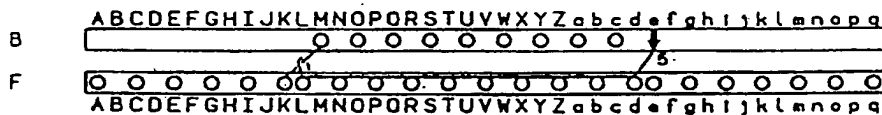


Fig. 127

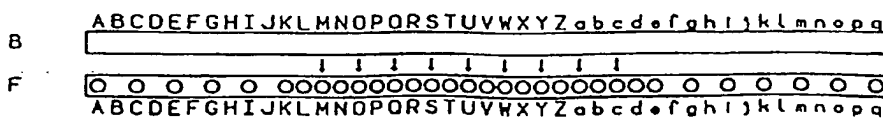


Fig. 128

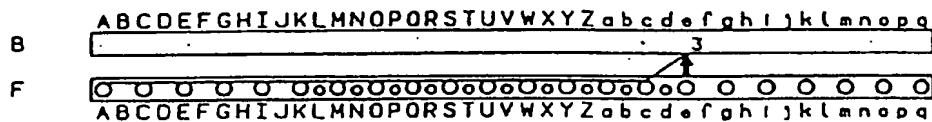


Fig. 129

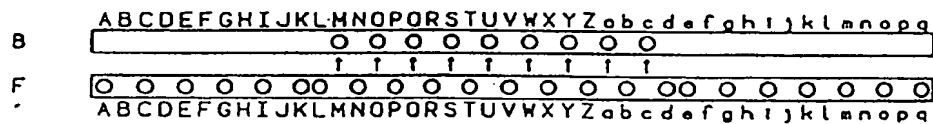


Fig. 130

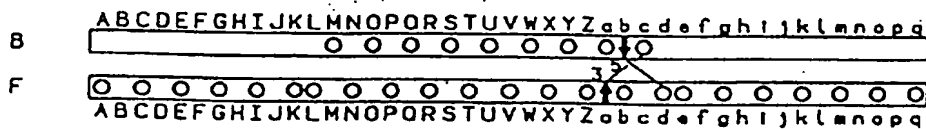


Fig. 131

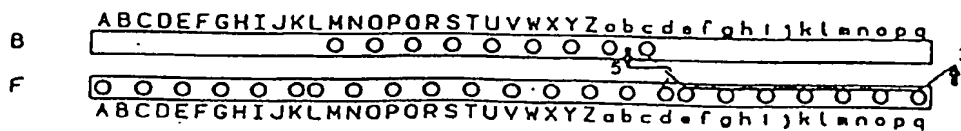


Fig. 132

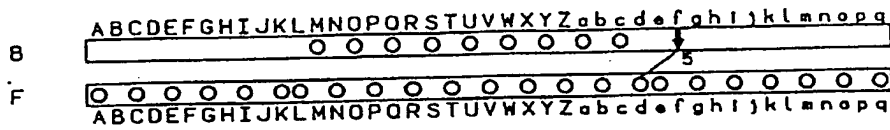


Fig. 133

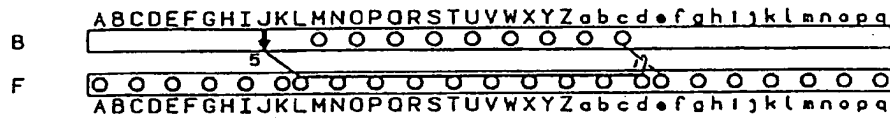


Fig. 134

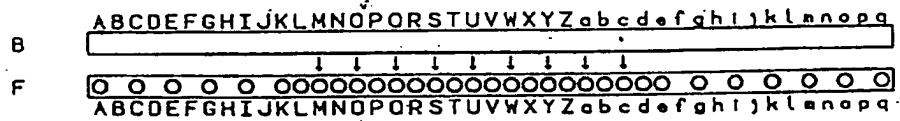


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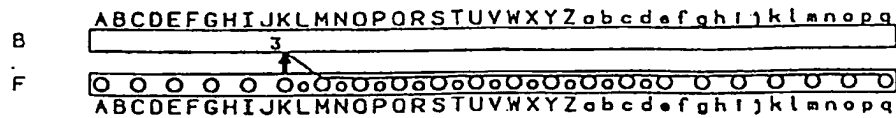


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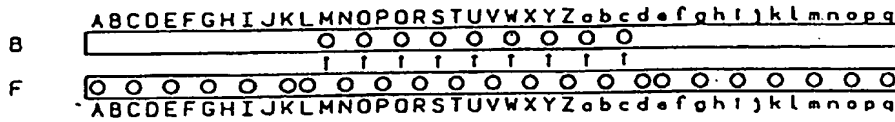


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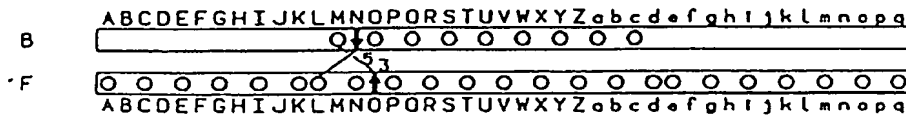


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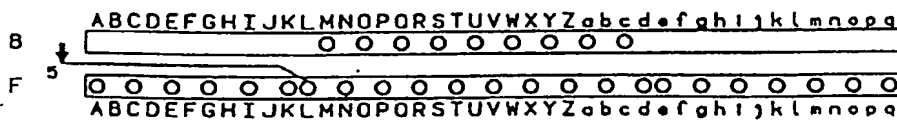


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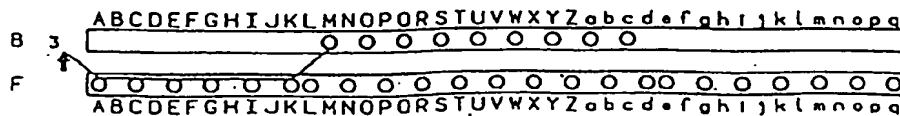


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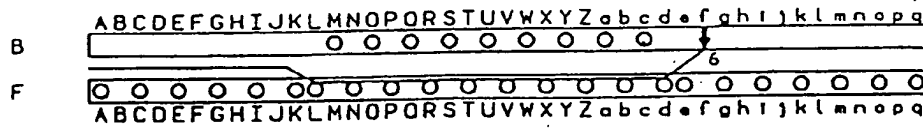


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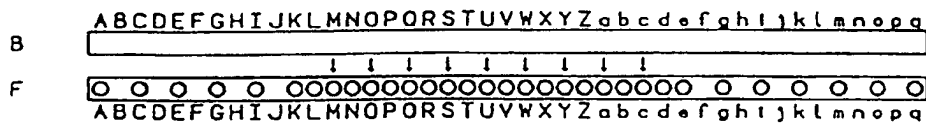


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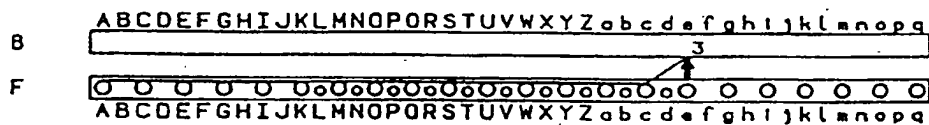


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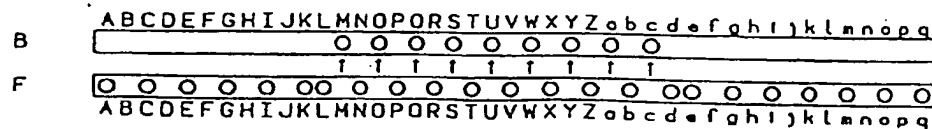


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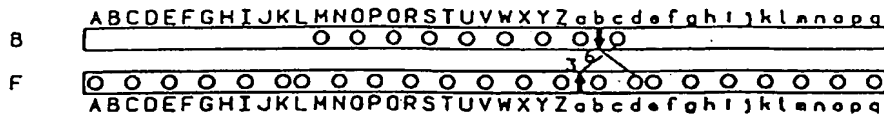


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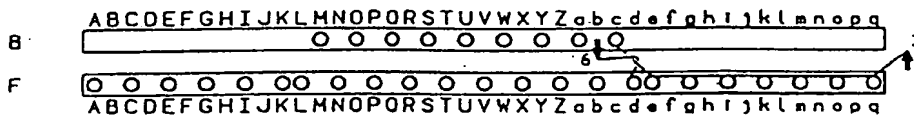


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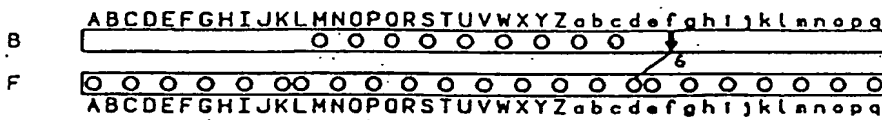


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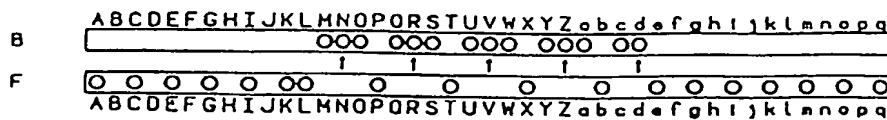


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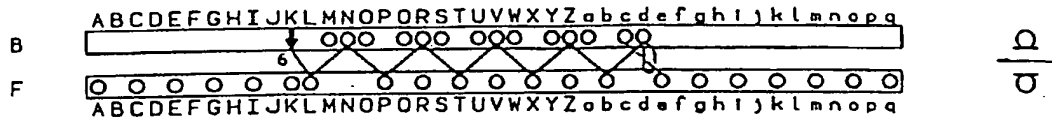


Fig. 149



Fig. 150

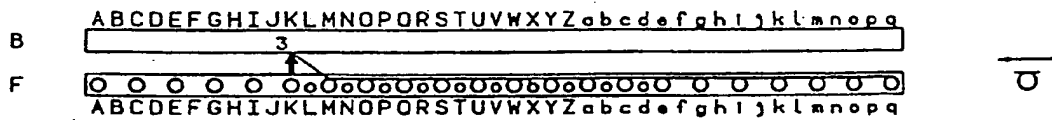


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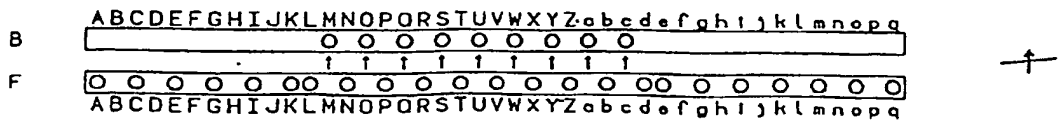


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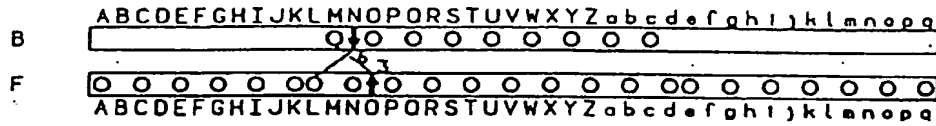


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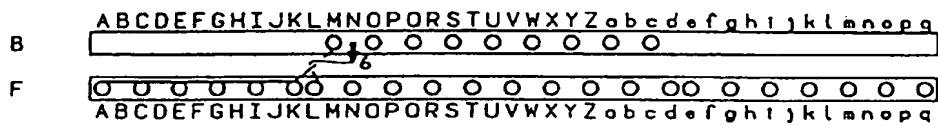


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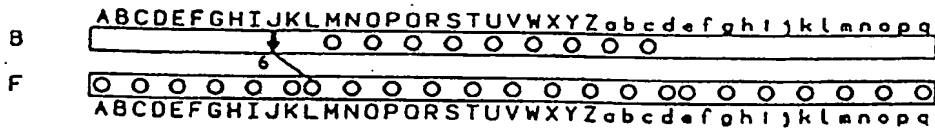


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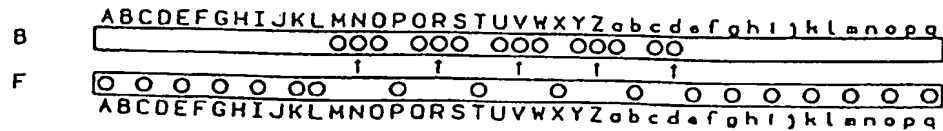


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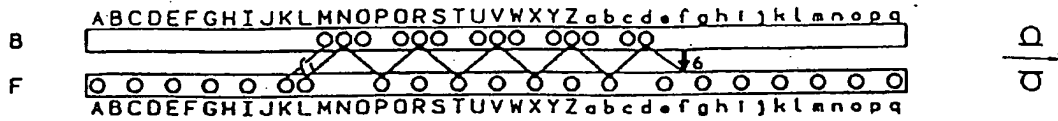


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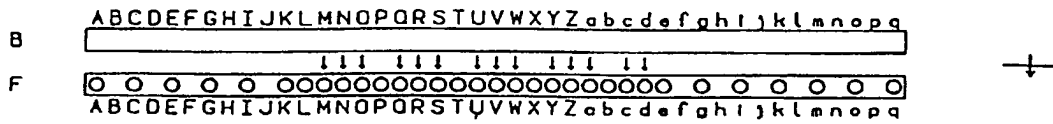


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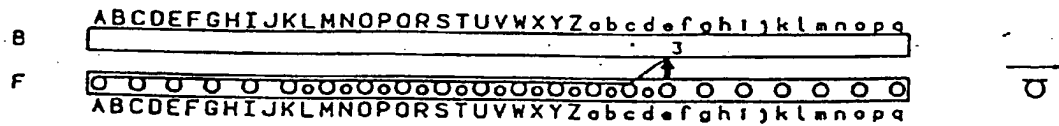


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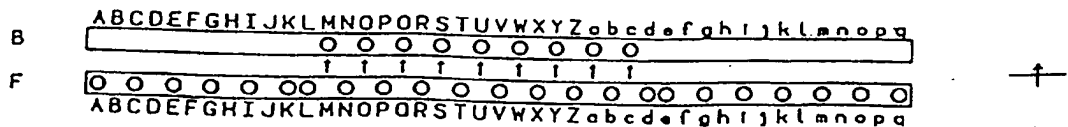


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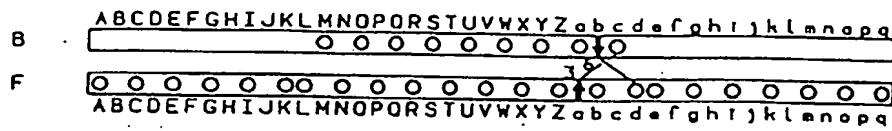


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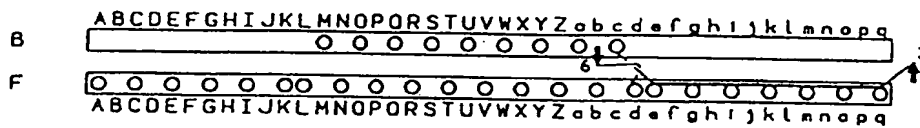


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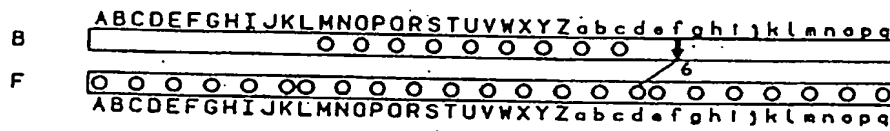


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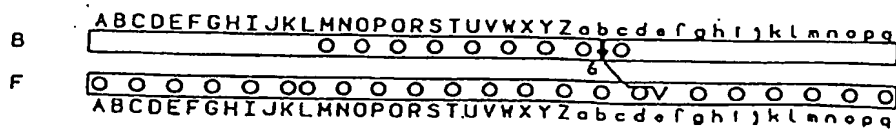


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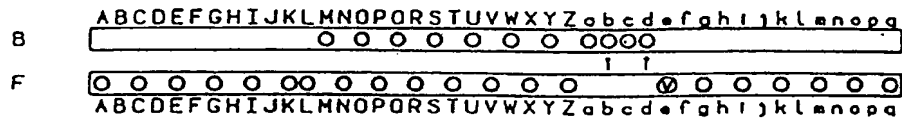


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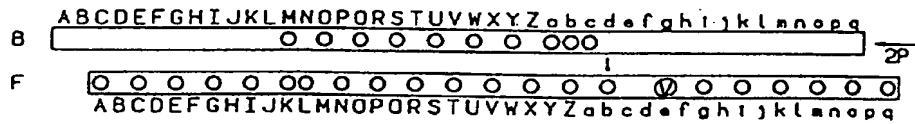


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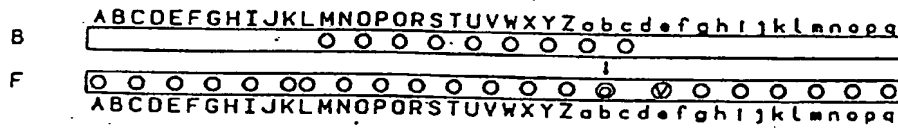


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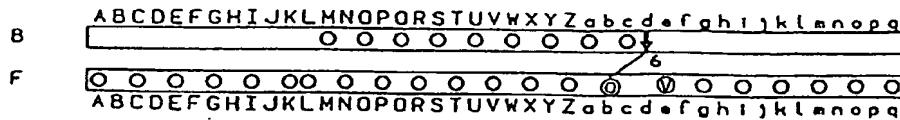
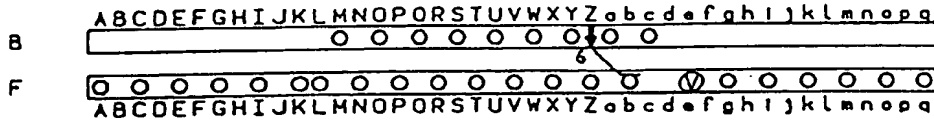
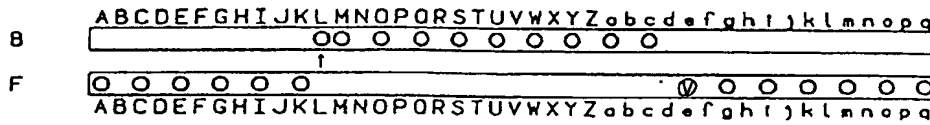


Fig. 168



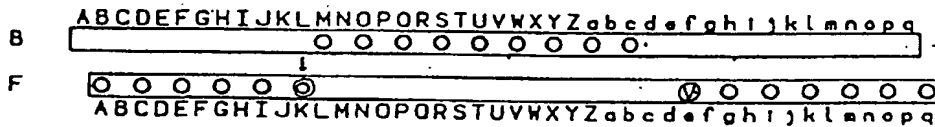
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Fig. 169



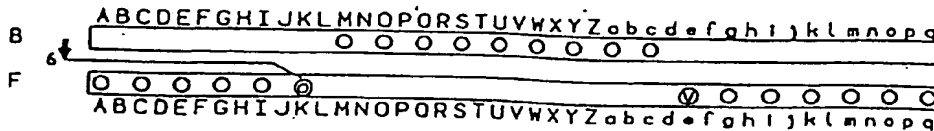
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Fig. 170



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Fig. 171



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Fig. 172

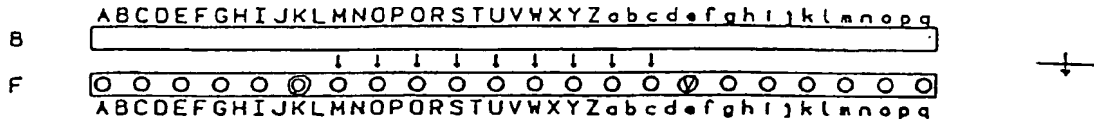


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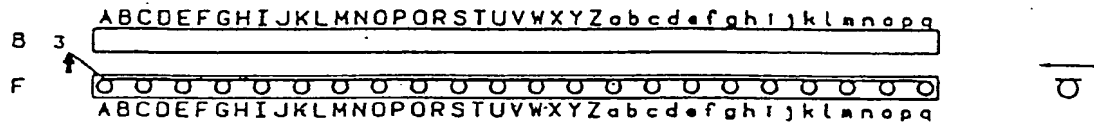


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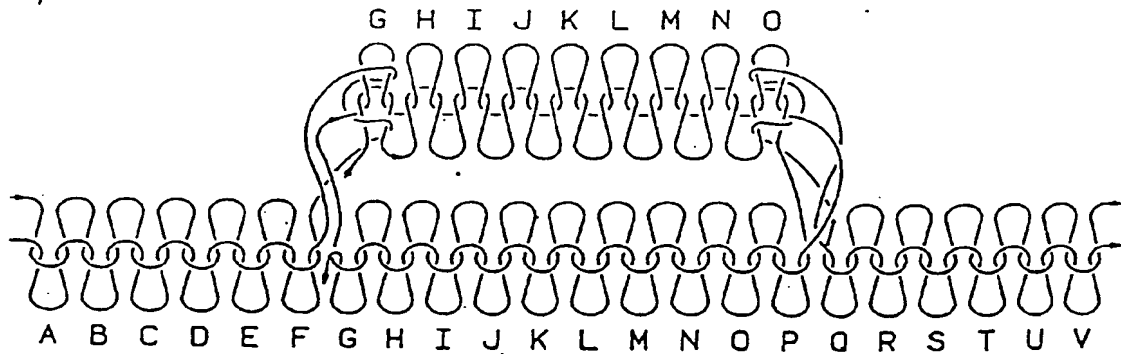


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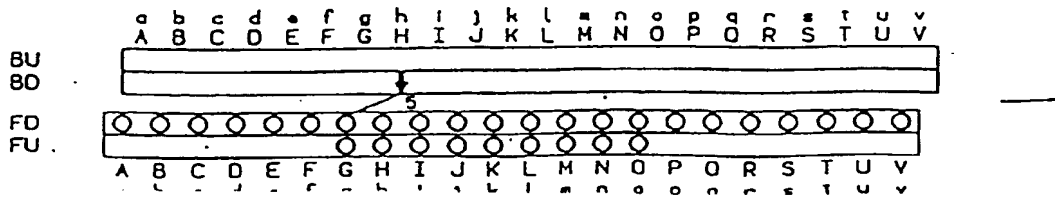


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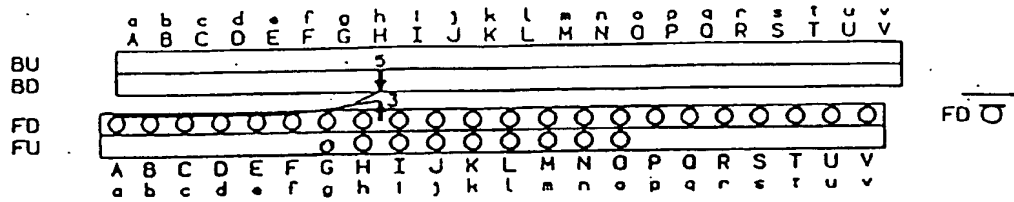


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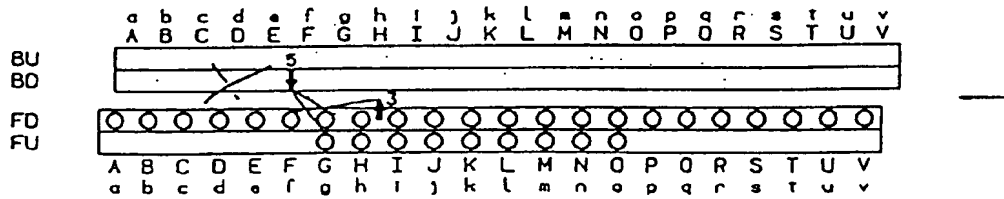


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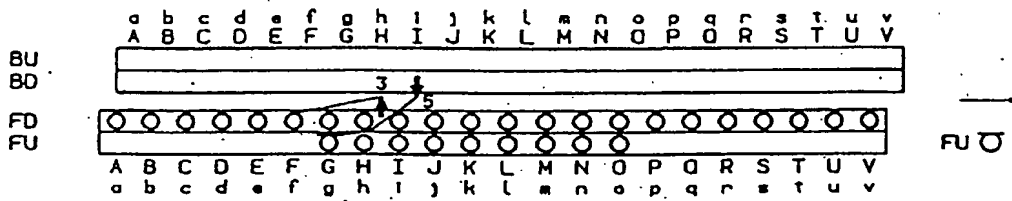


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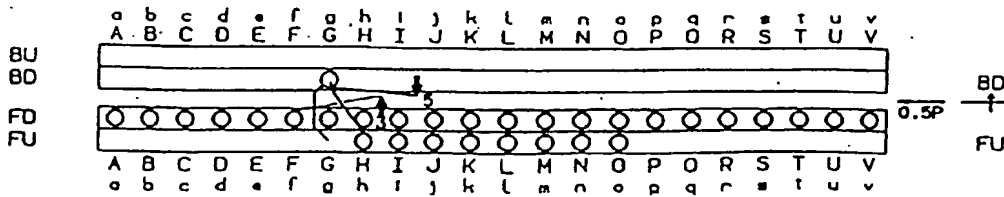


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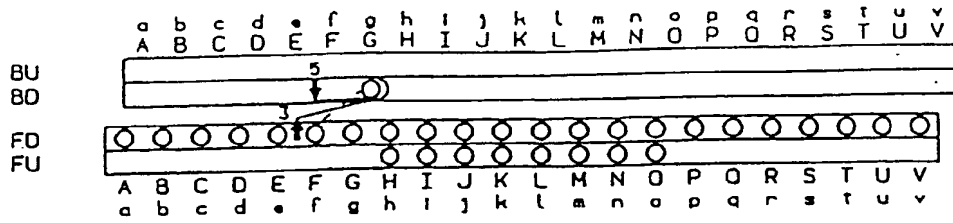


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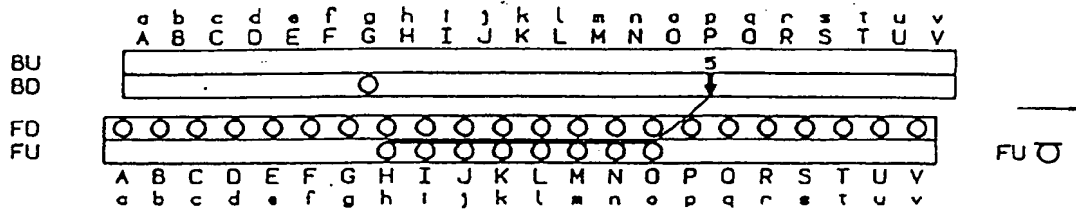


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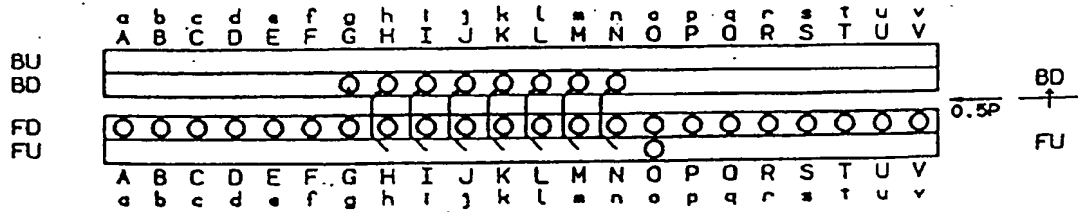


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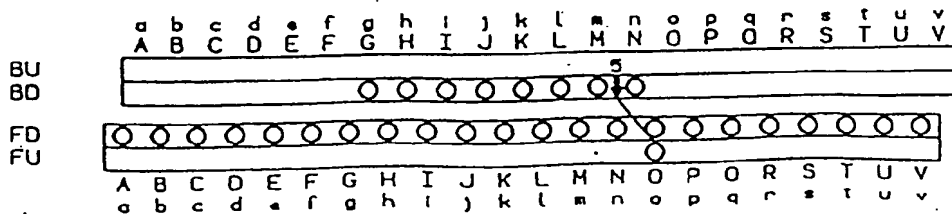


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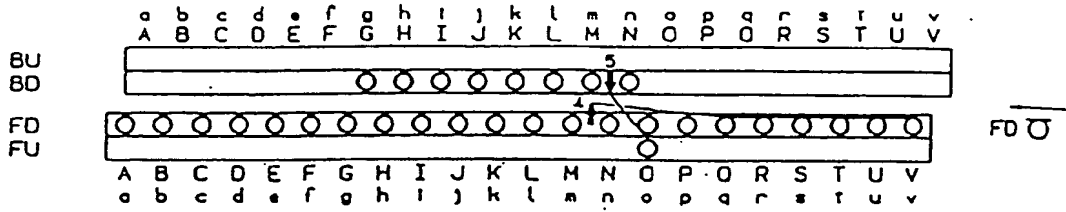


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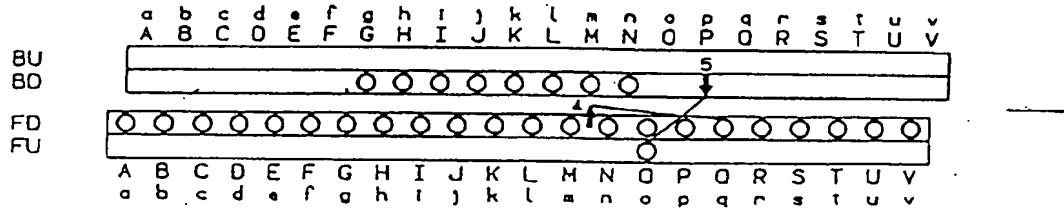


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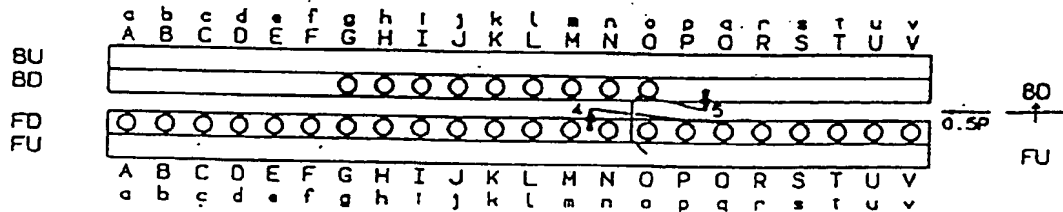


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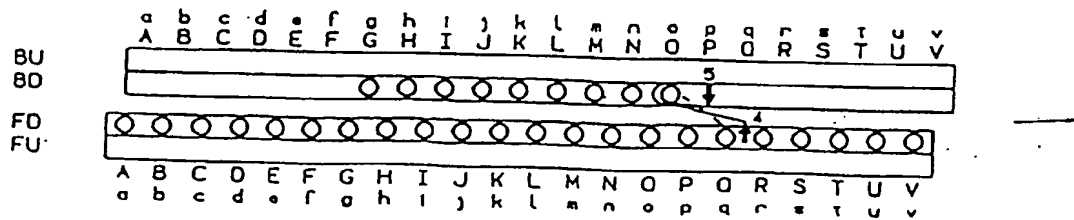


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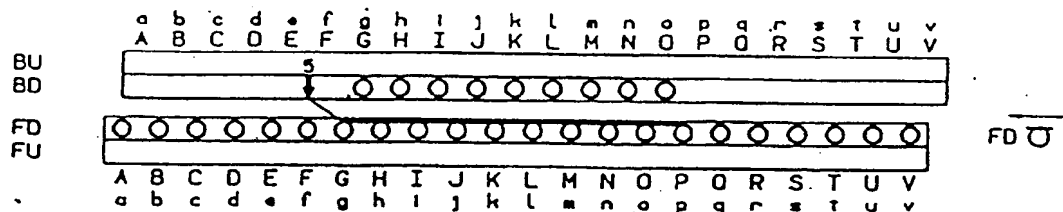


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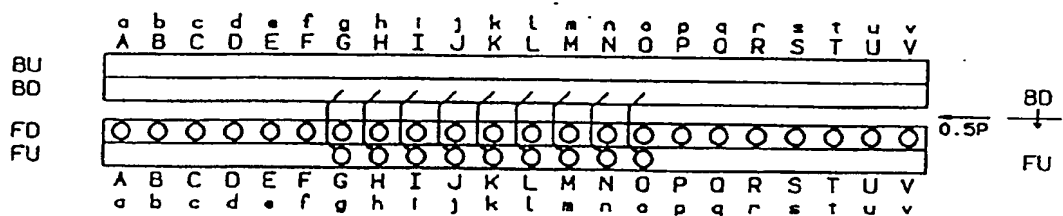


Fig. 190

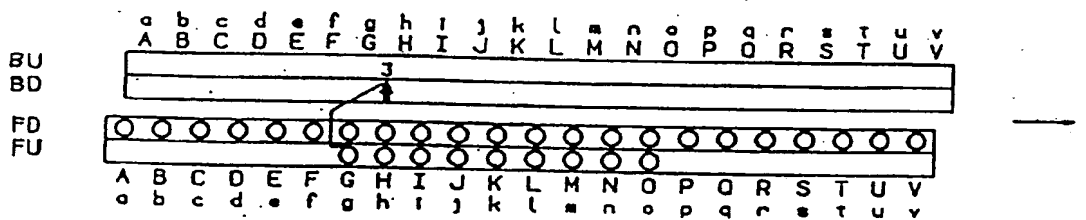


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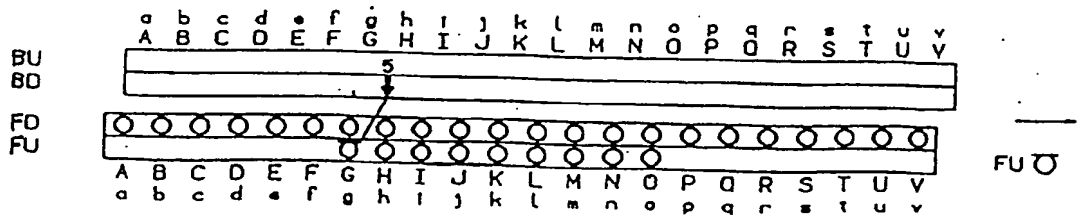


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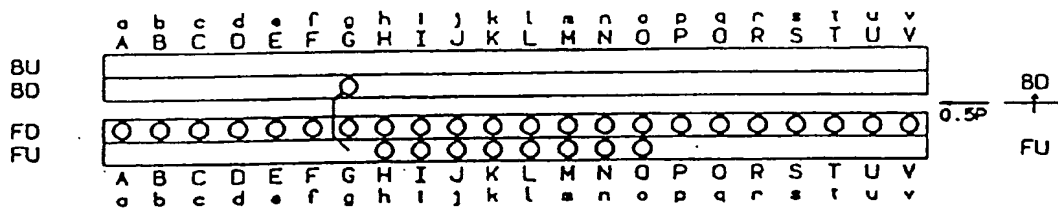


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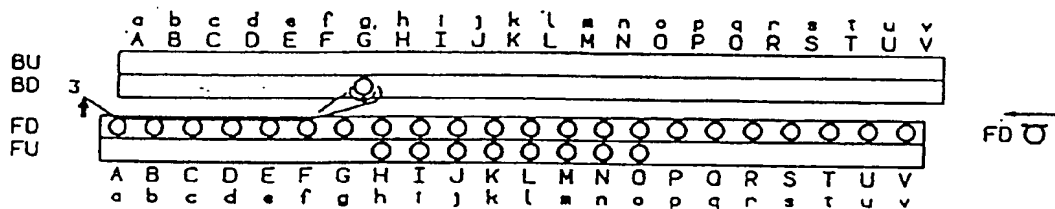


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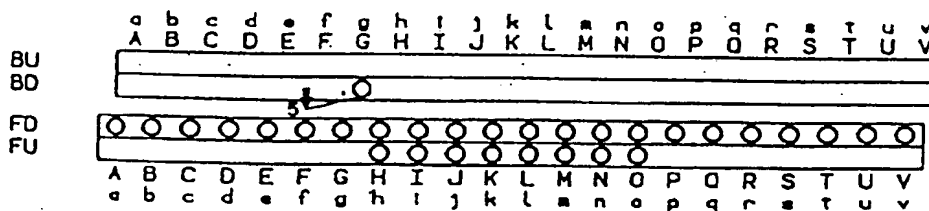


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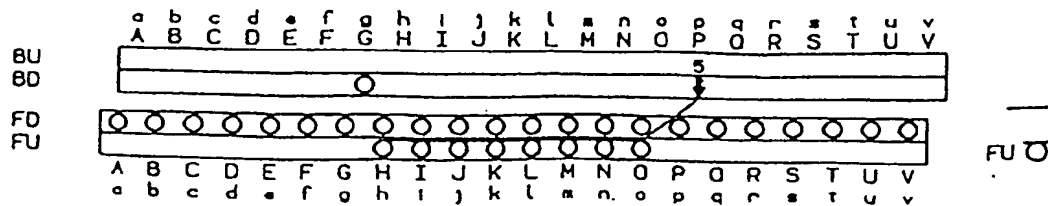


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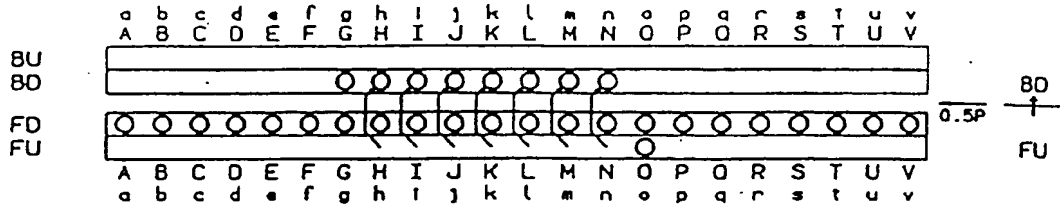


Fig. 197

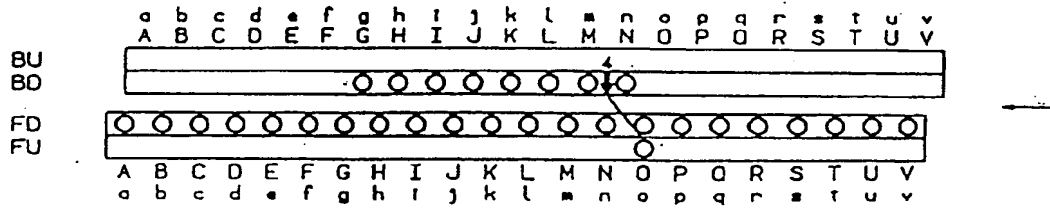


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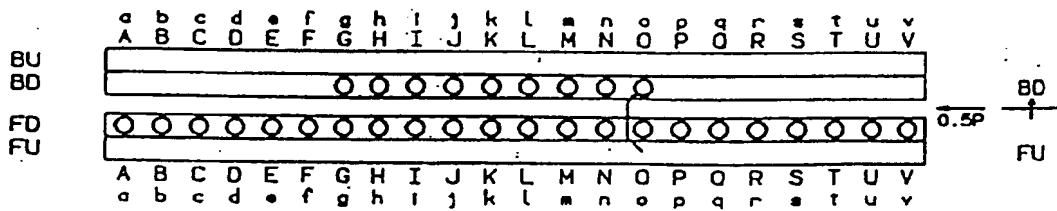


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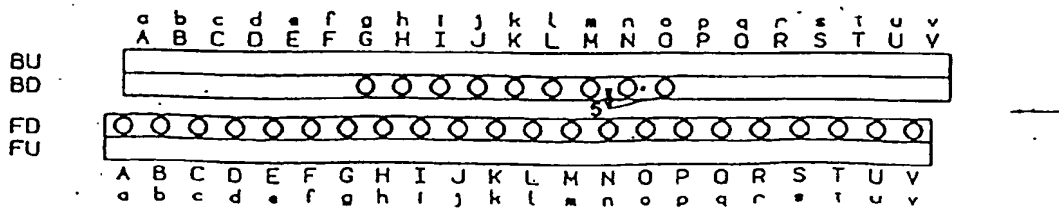


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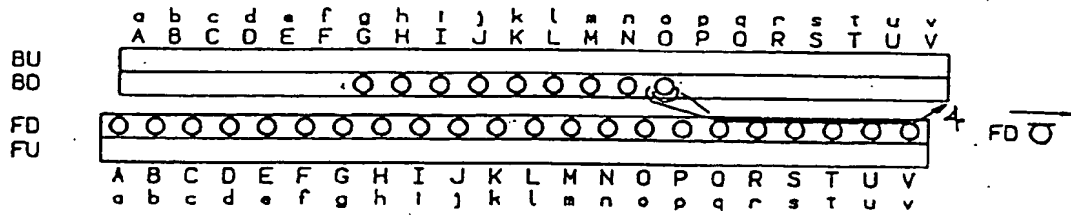


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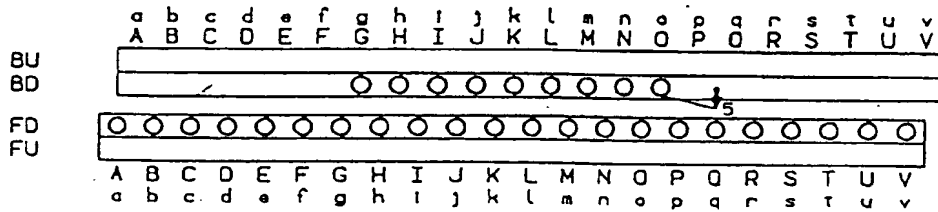


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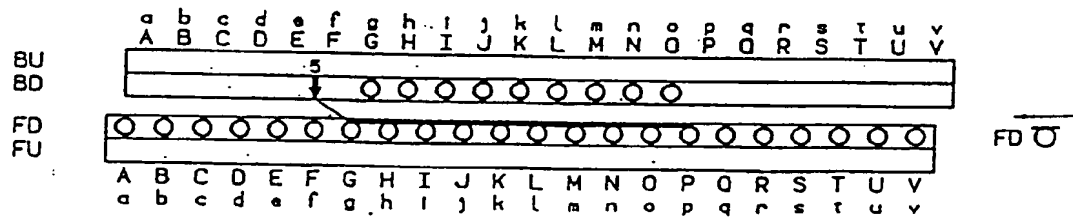


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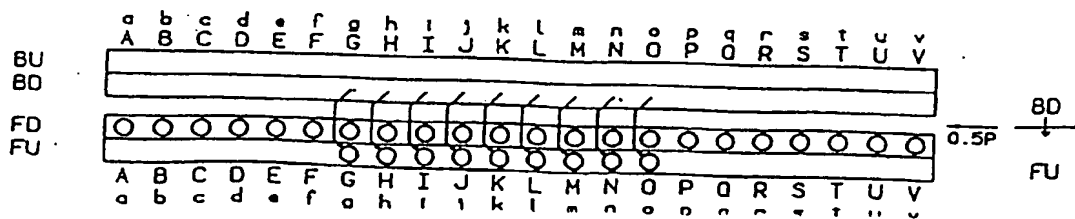


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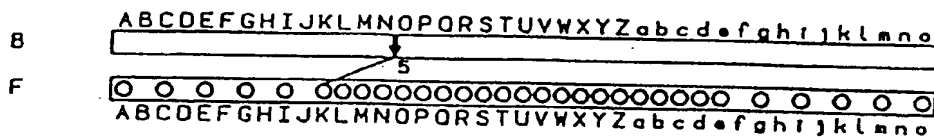


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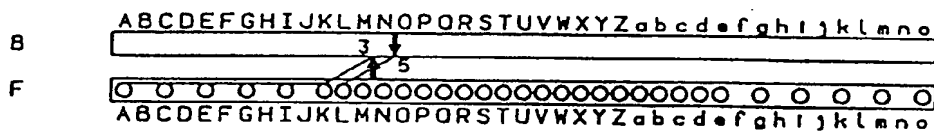


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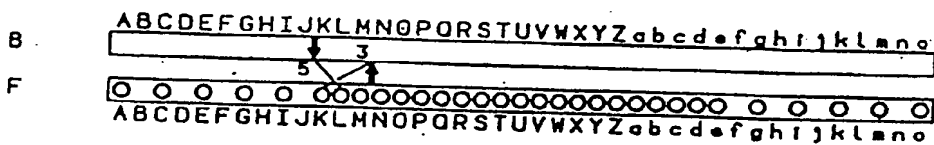


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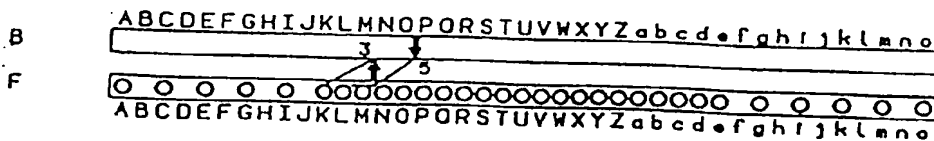


Fig. 208

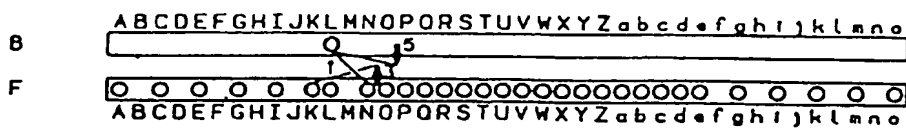


Fig. 209

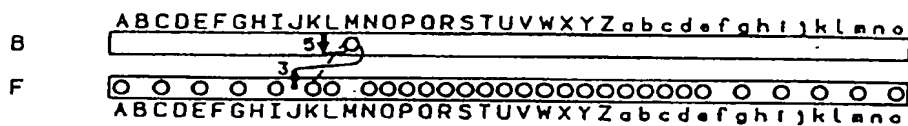


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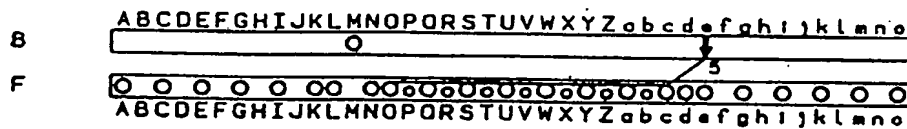


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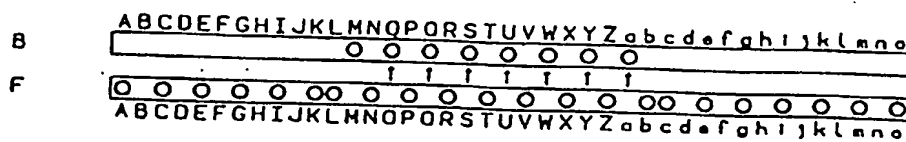


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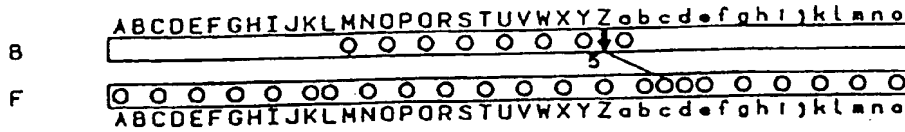


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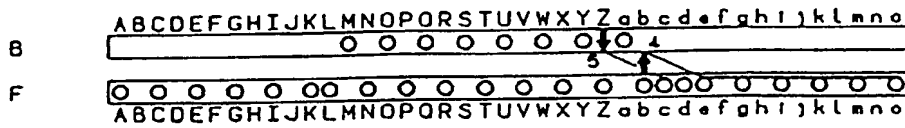


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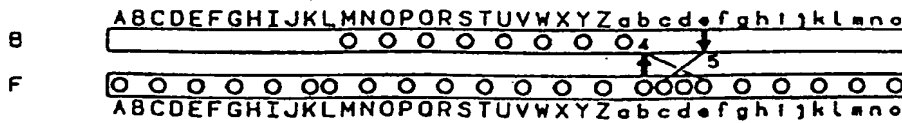


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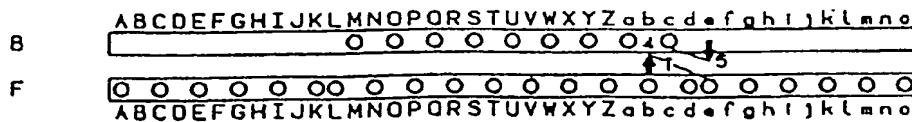


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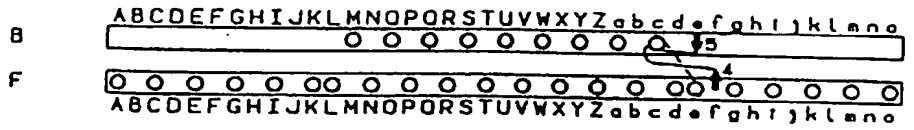


Fig. 217

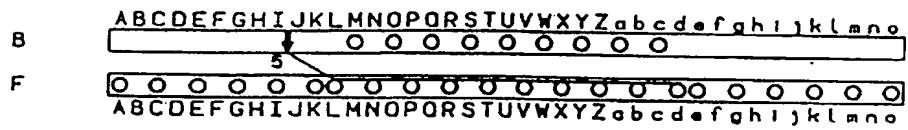


Fig. 218

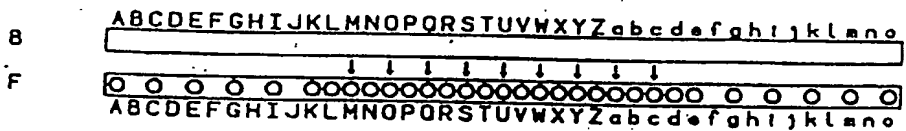


Fig. 219

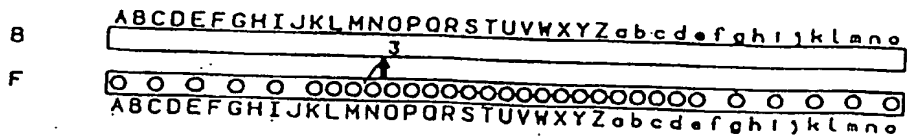
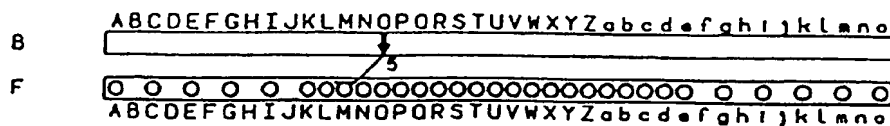
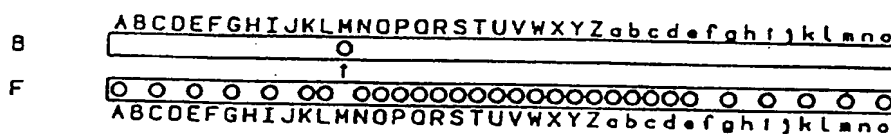


Fig. 220



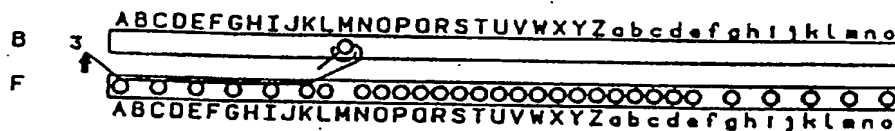
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Fig. 221



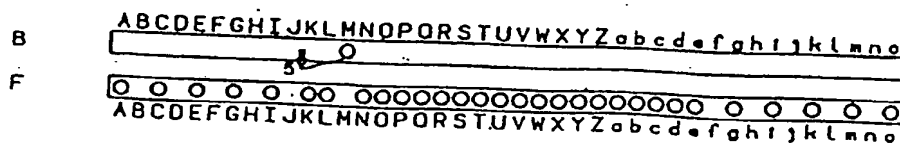
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Fig. 222



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Fig. 223



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Fig. 224

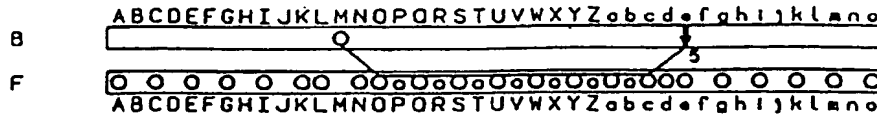


Fig. 225

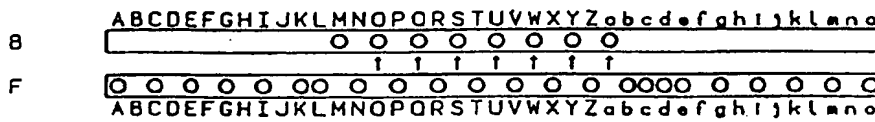


Fig. 226

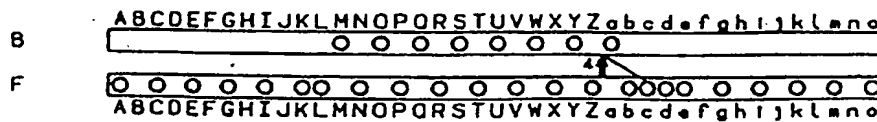


Fig. 227

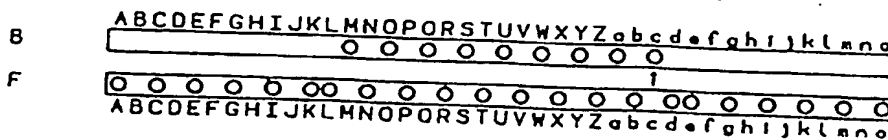


Fig. 228

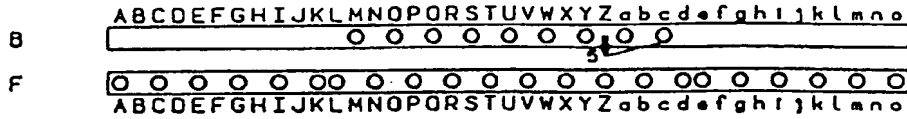


Fig. 229

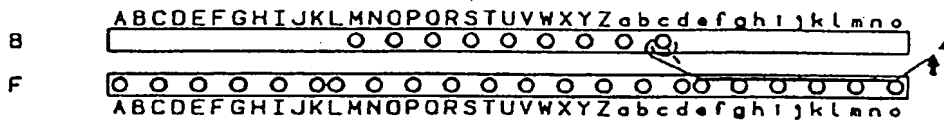


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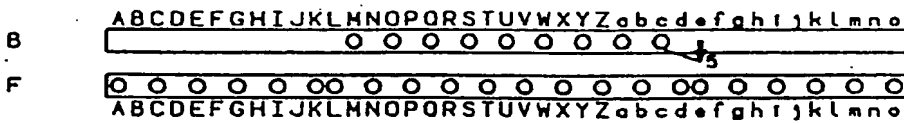


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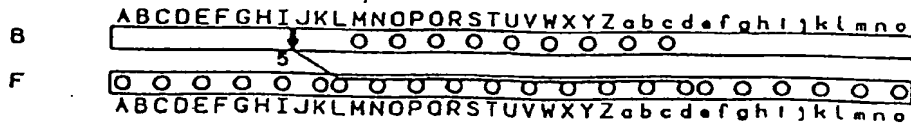


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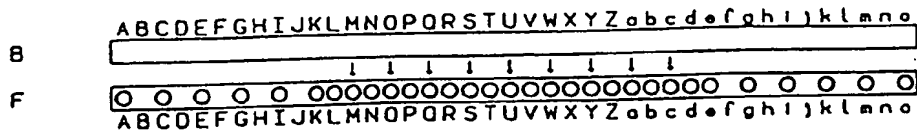


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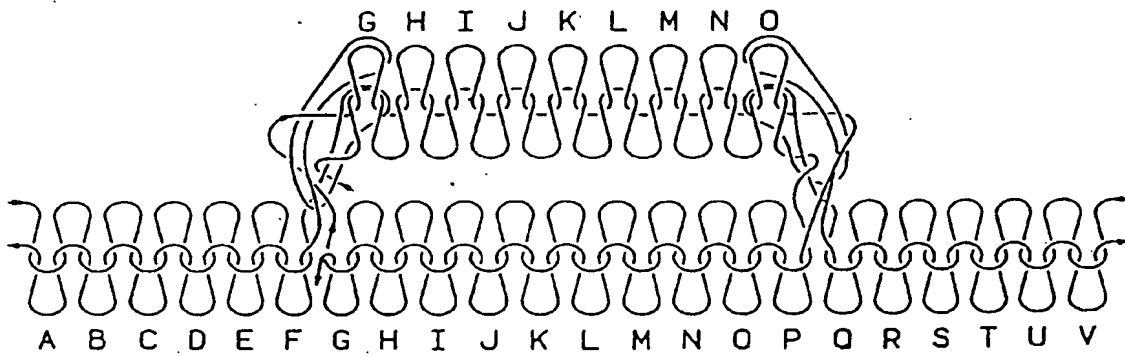


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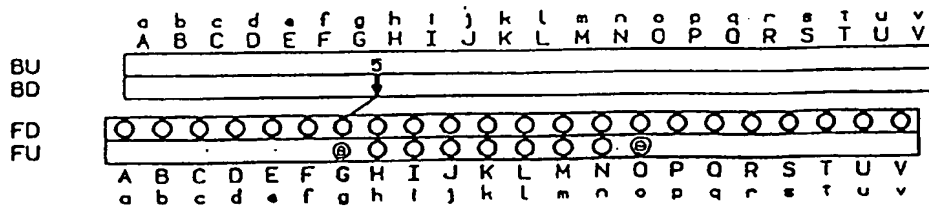


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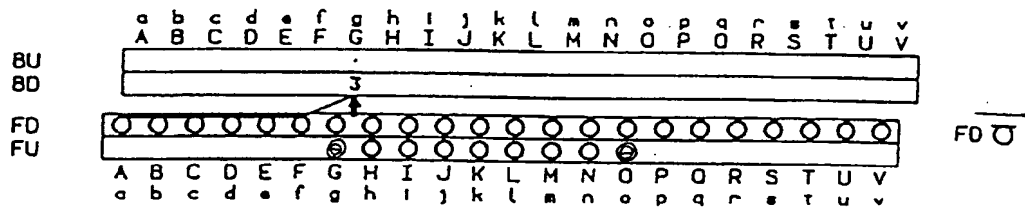


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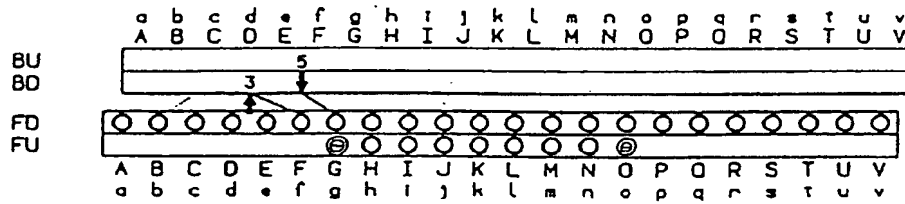


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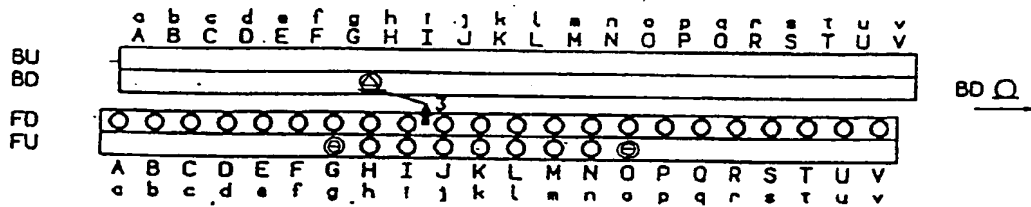


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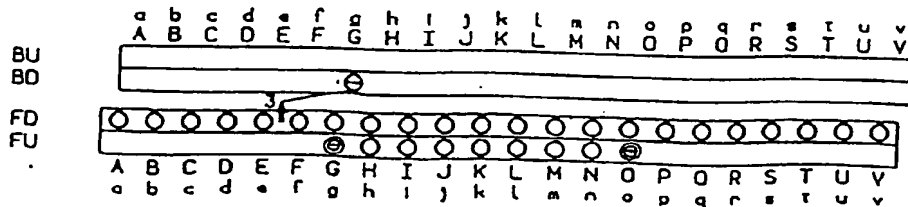


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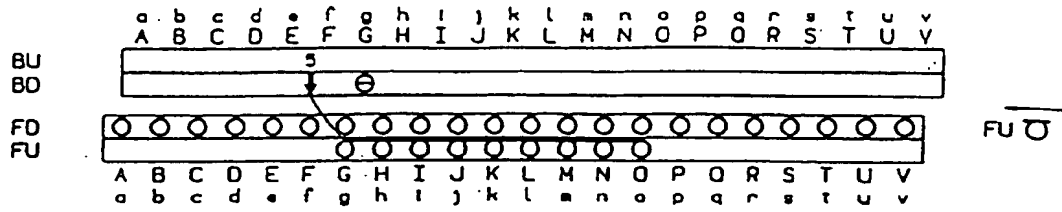


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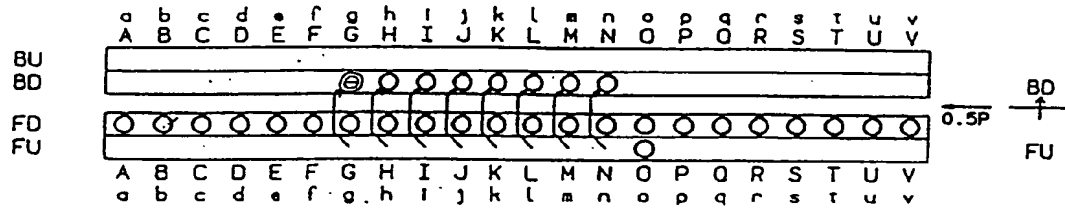


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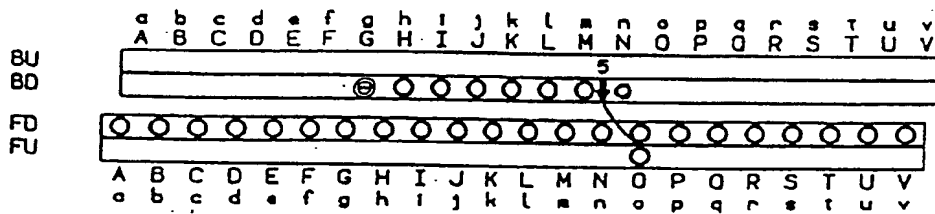


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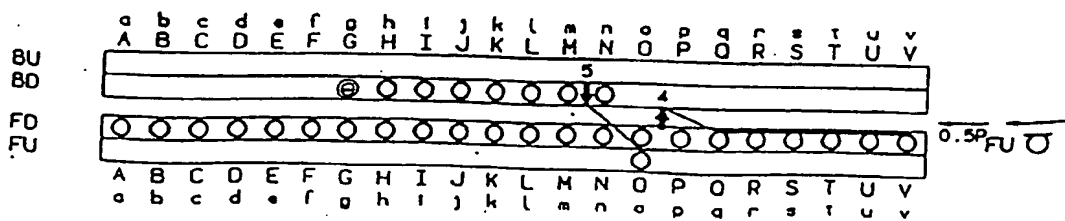


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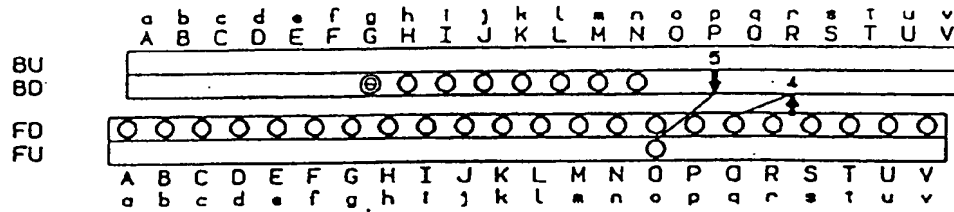


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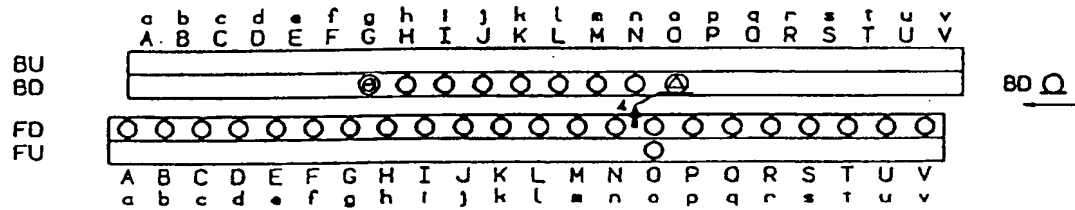


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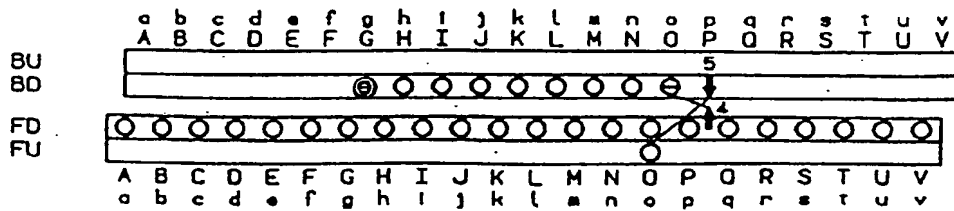


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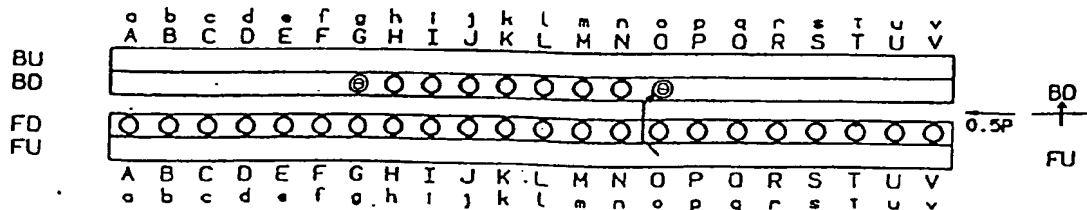


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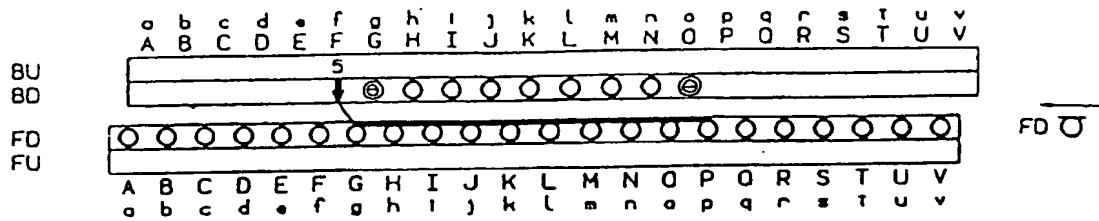


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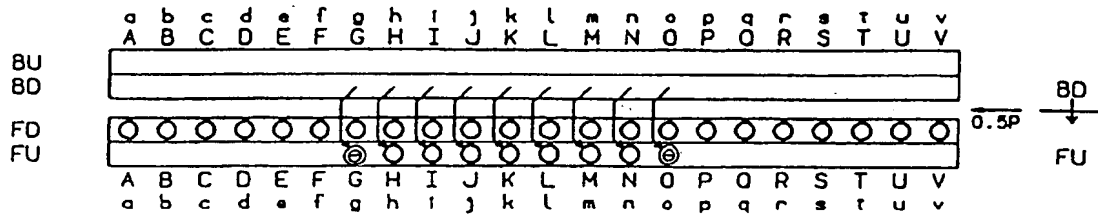


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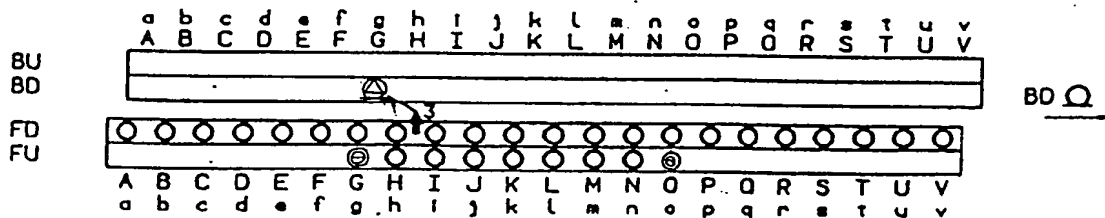


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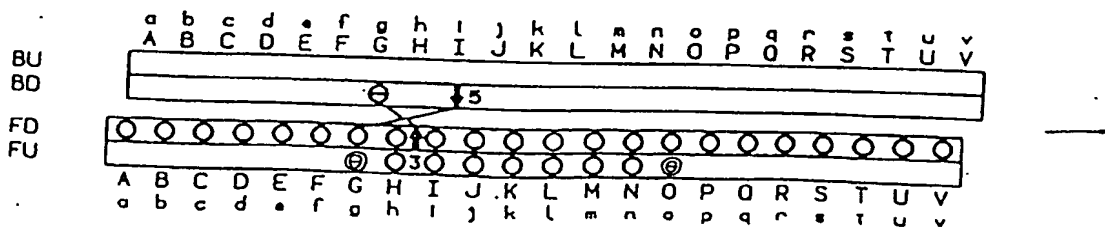


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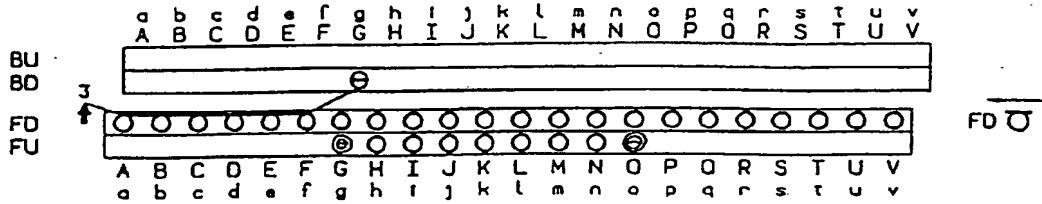


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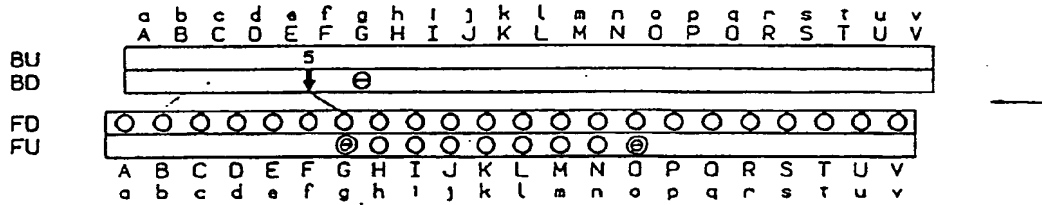


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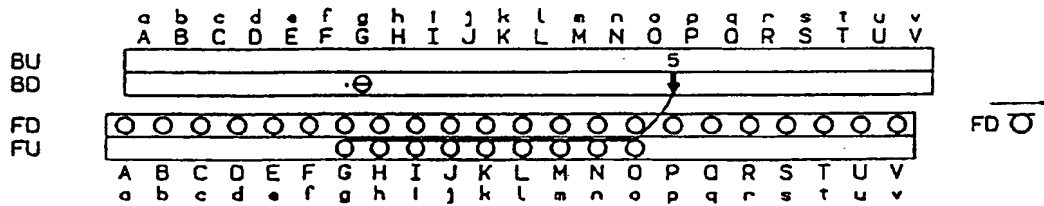


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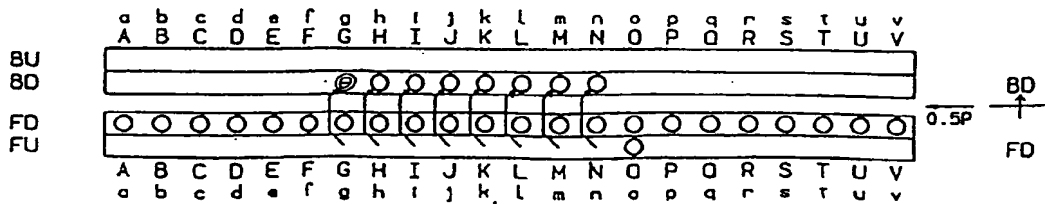


Fig. 255

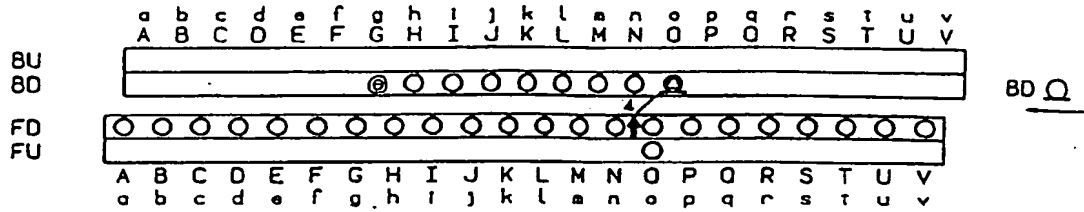


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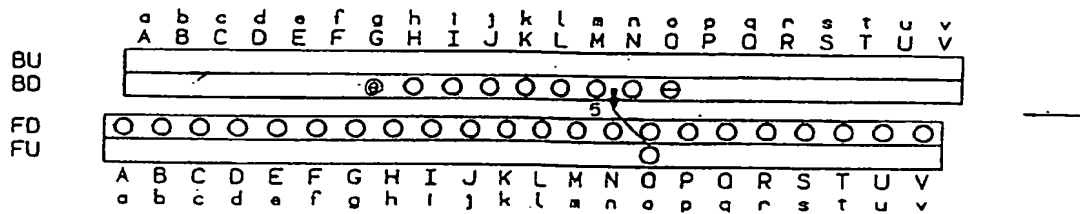


Fig. 257

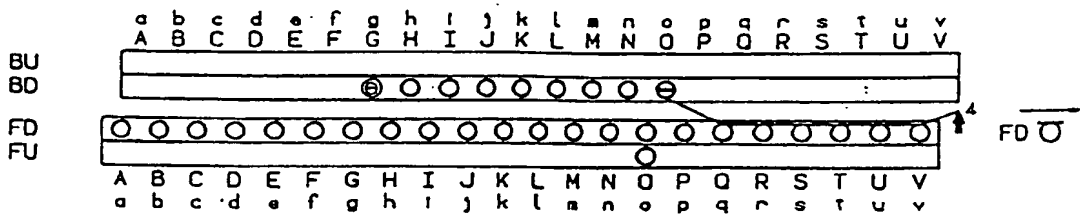


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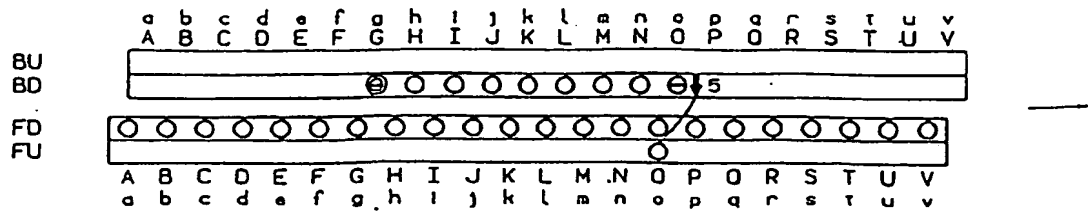


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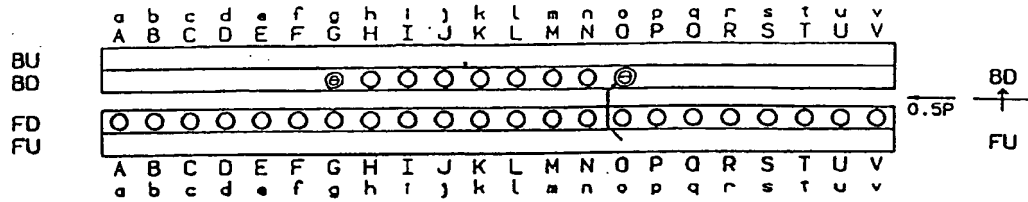


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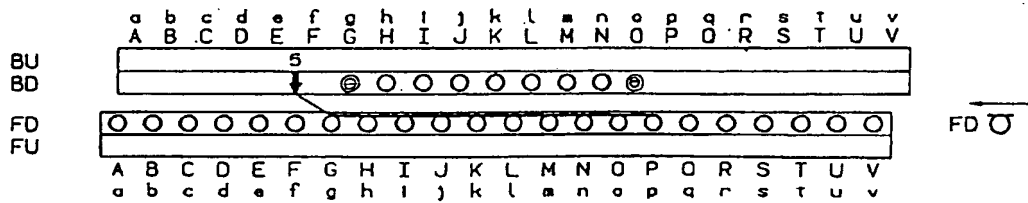


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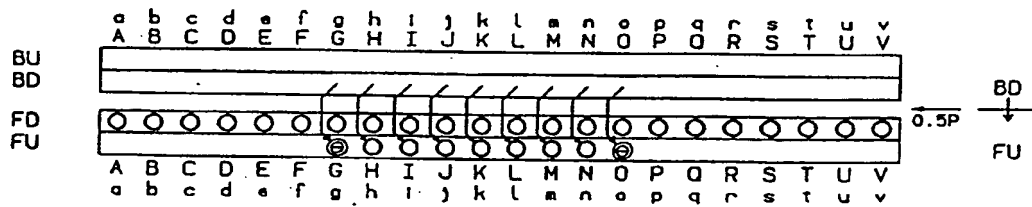


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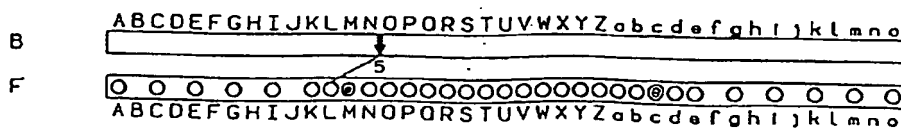


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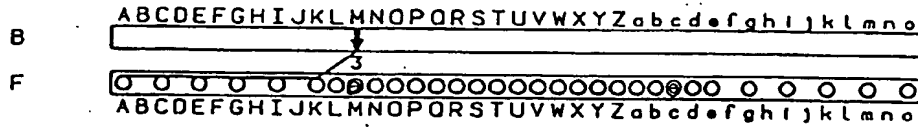


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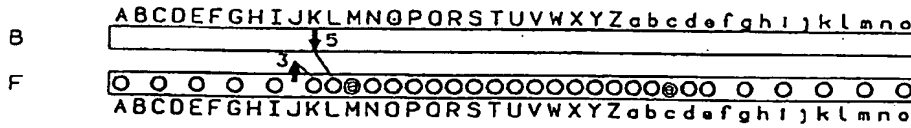


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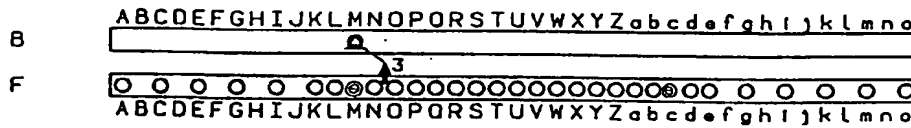


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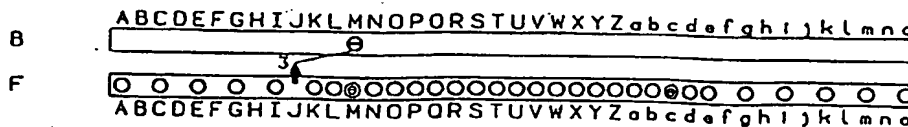


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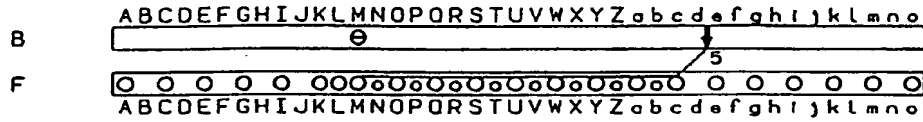


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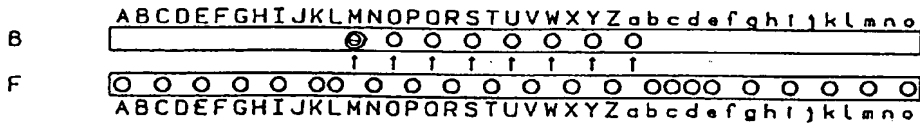


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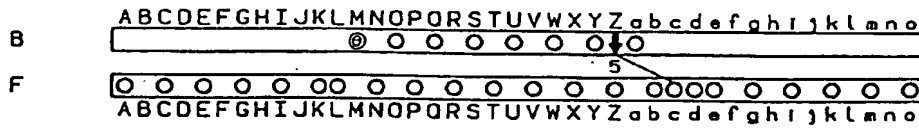


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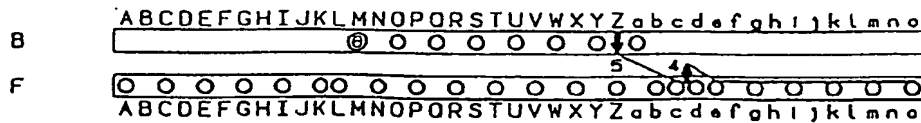


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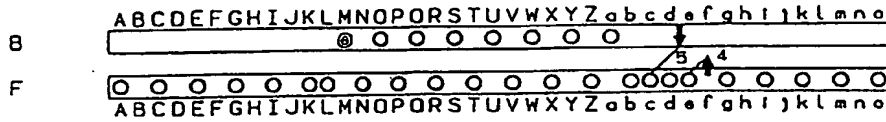


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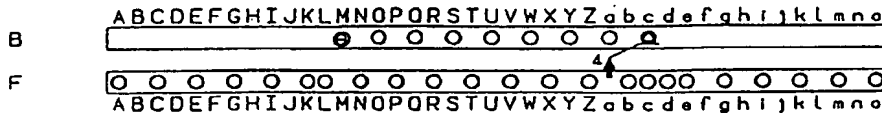


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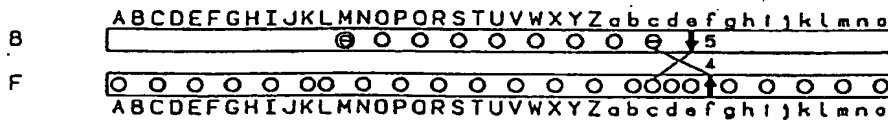


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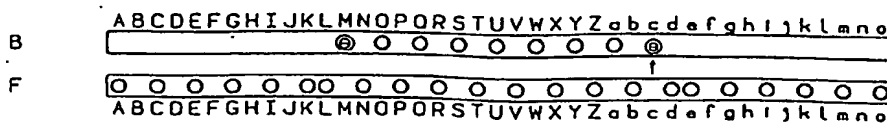
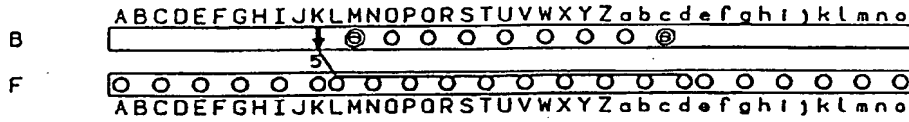
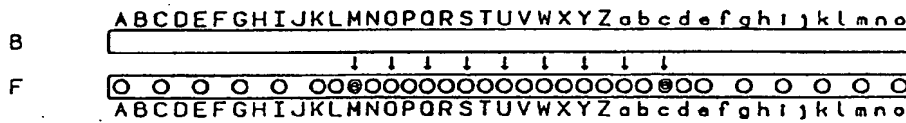


Fig. 275



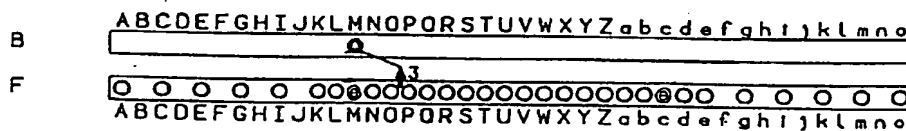
σ

Fig. 276



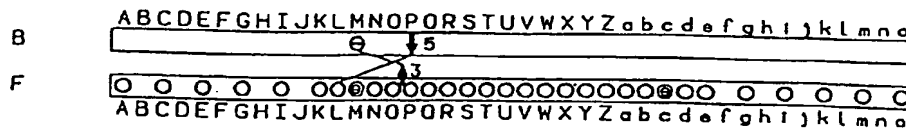
+

Fig. 277



Ω

Fig. 278



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Fig. 279

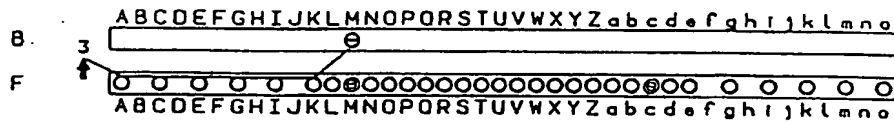


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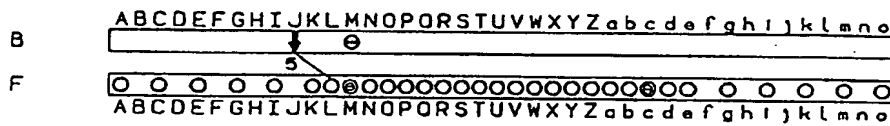


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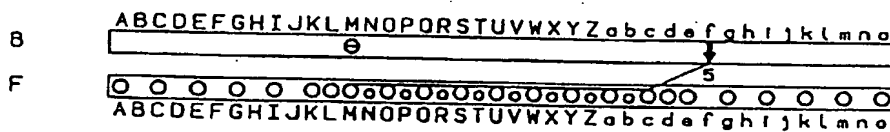


Fig. 282

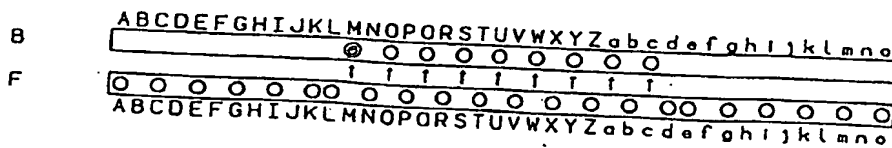


Fig. 283

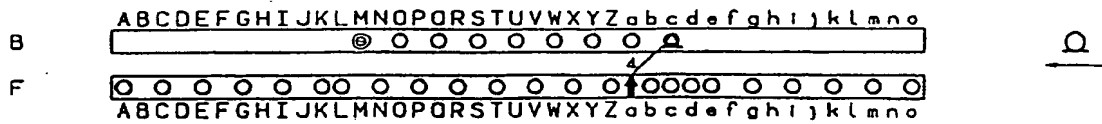


Fig. 284

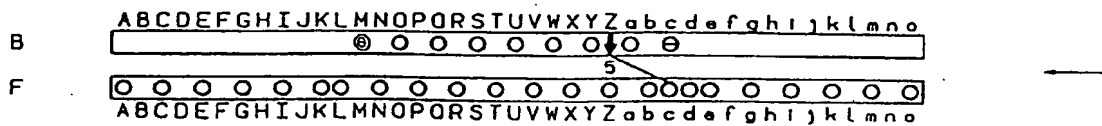


Fig. 285

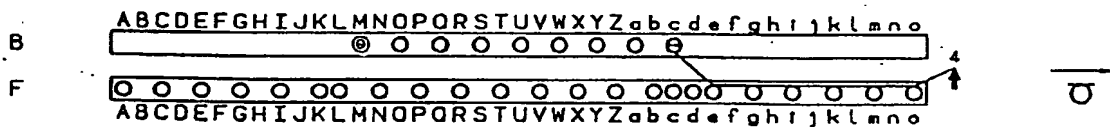


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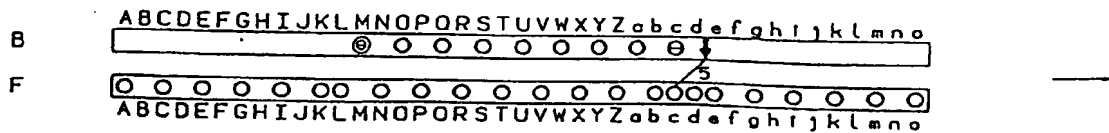


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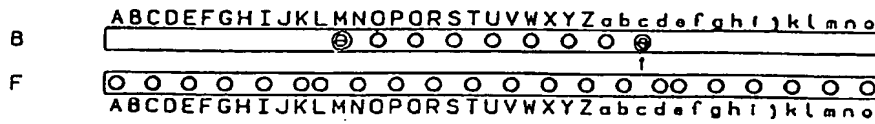


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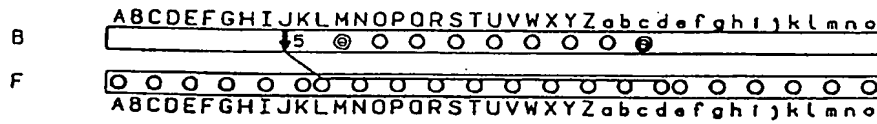


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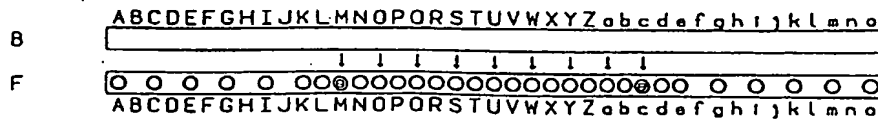


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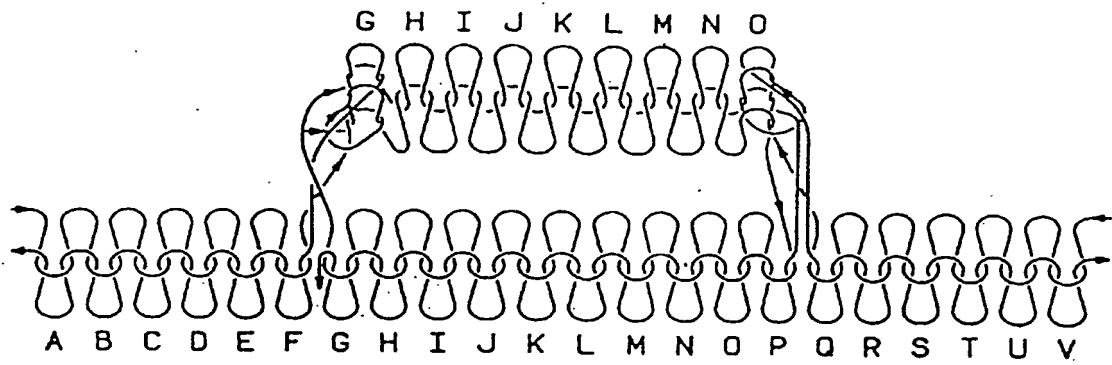


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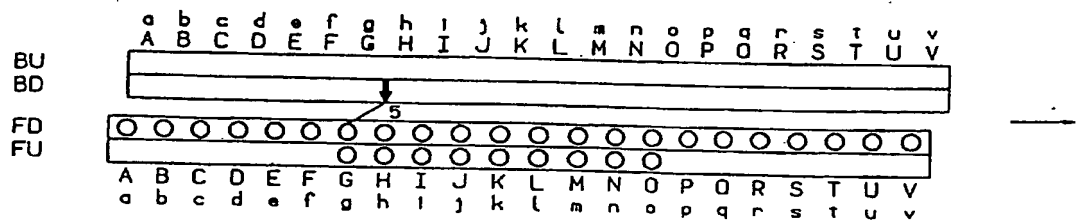


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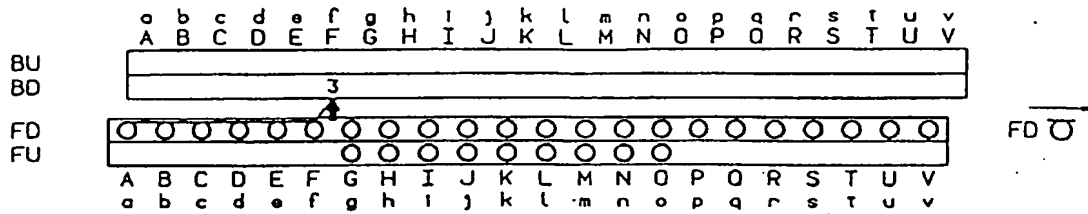


Fig. 293

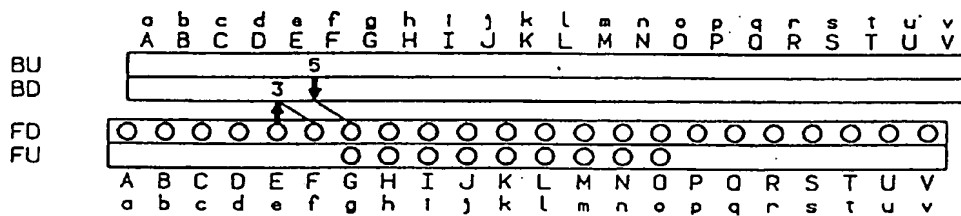


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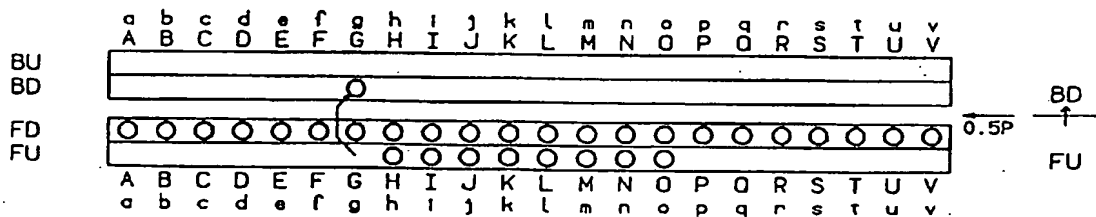


Fig. 295

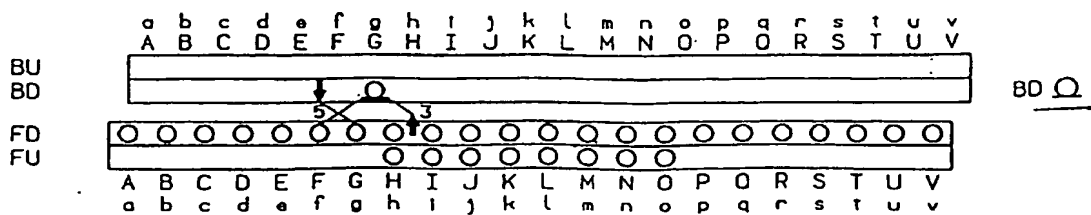


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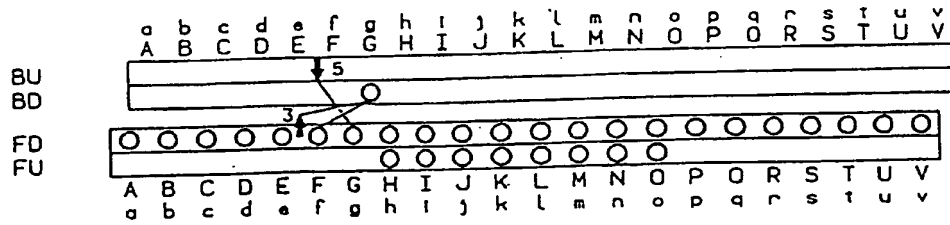


Fig. 297

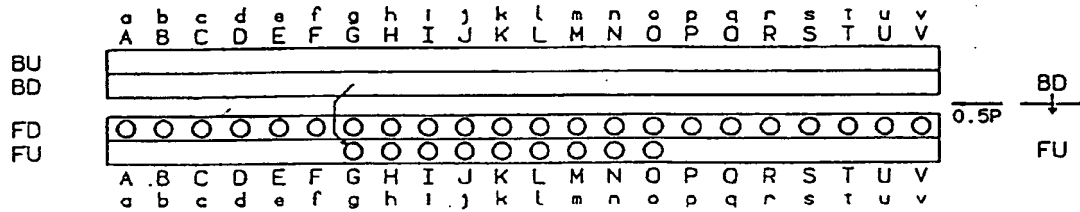


Fig. 298

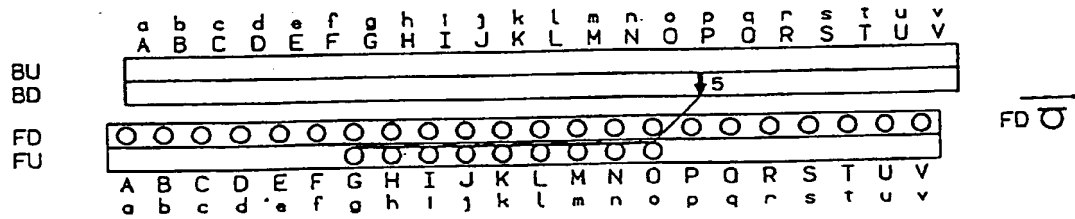


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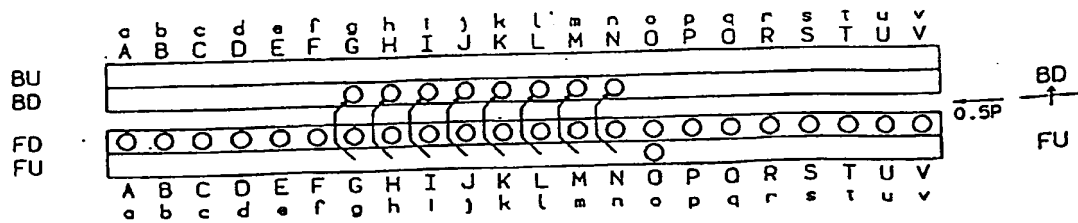


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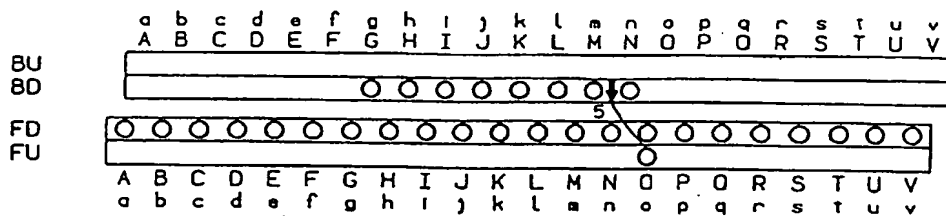


Fig. 301

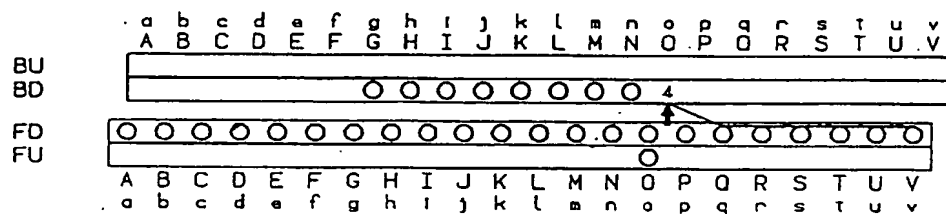


Fig. 302

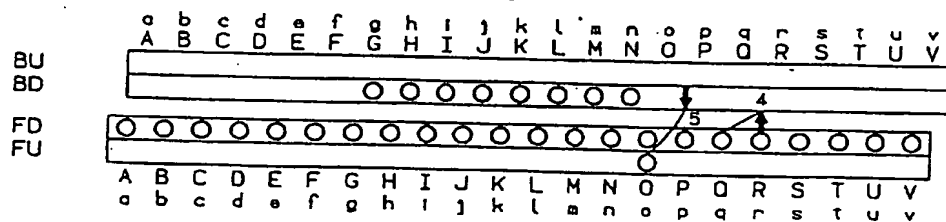


Fig. 303

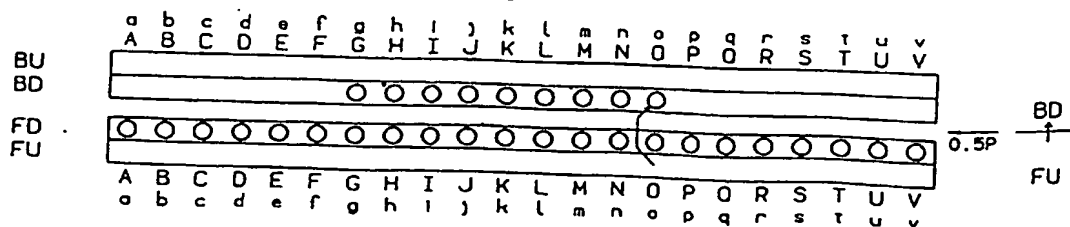


Fig. 304

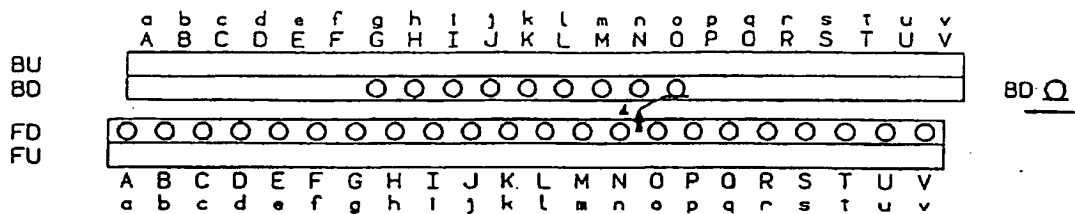


Fig. 305

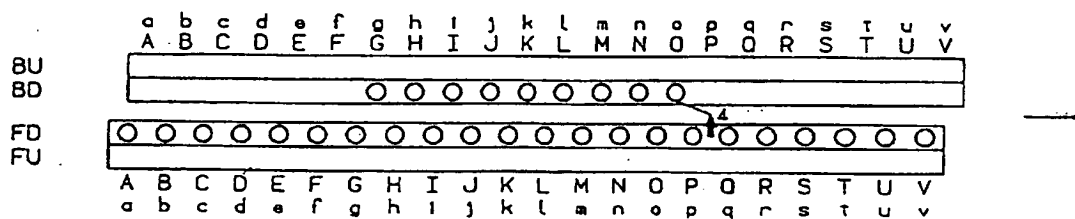


Fig. 306

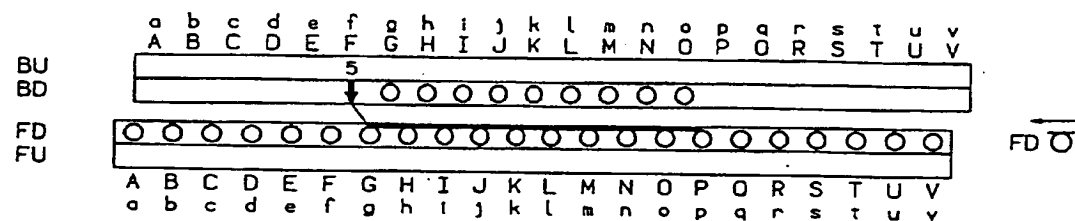


Fig. 307

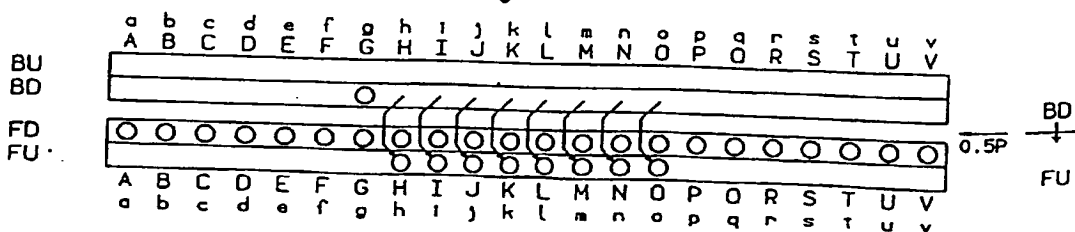


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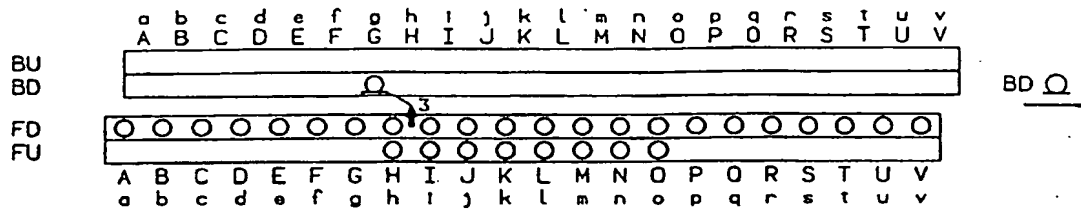


Fig. 309

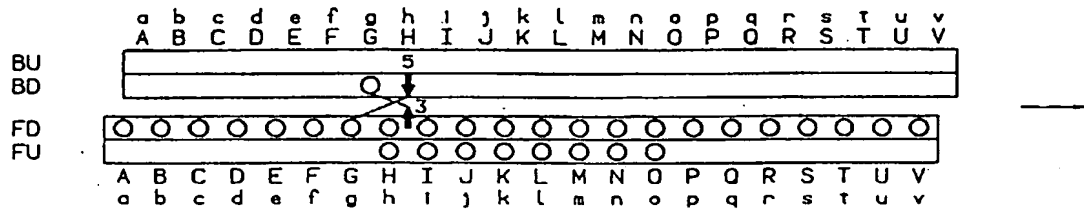


Fig. 310

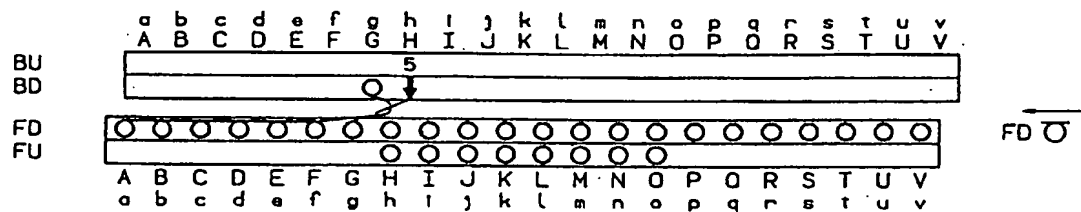


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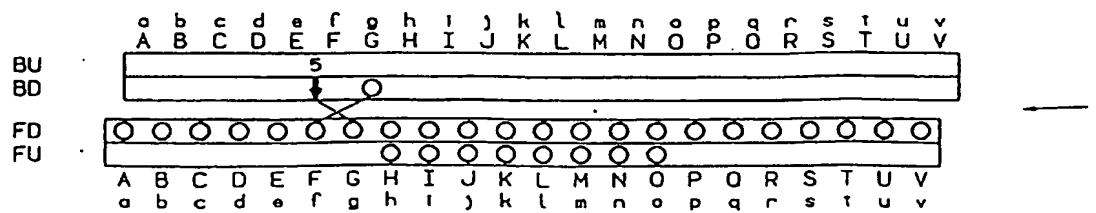


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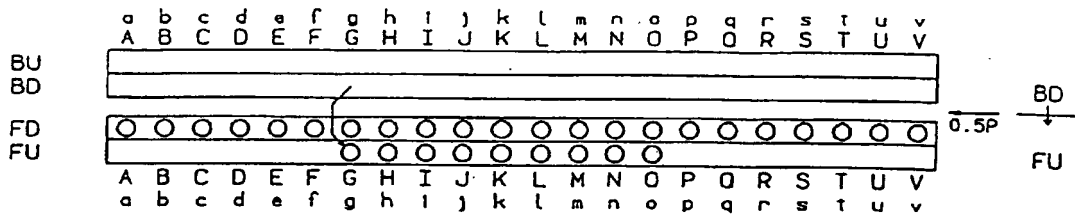


Fig. 313

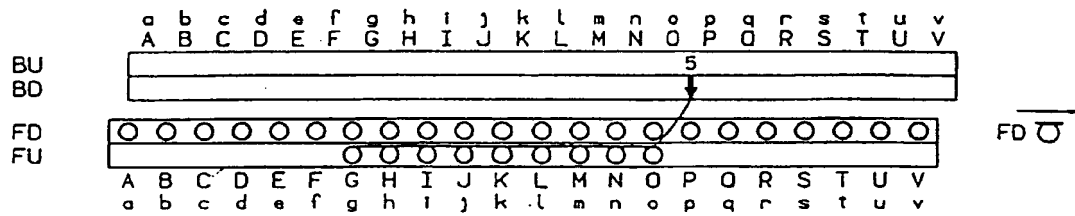


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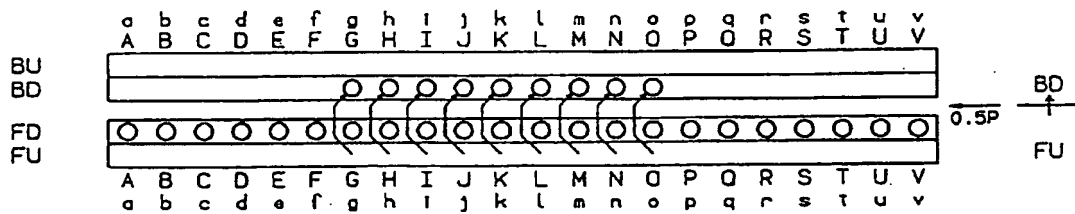


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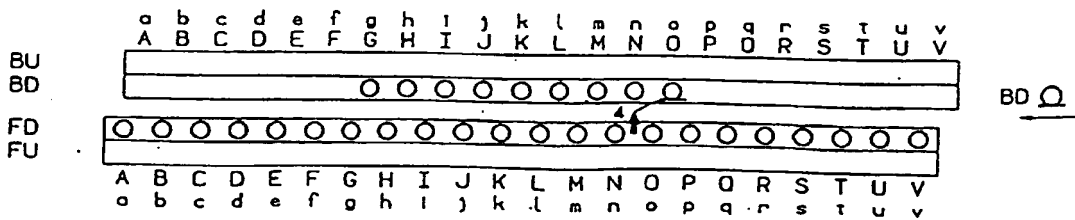


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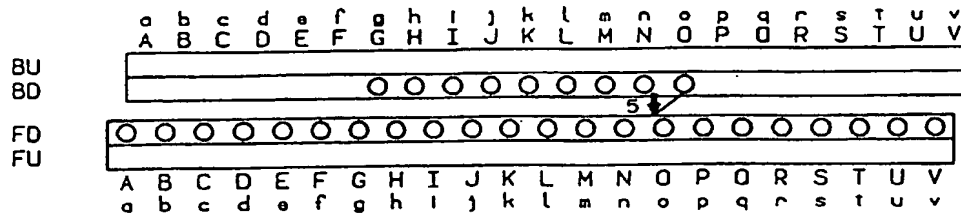


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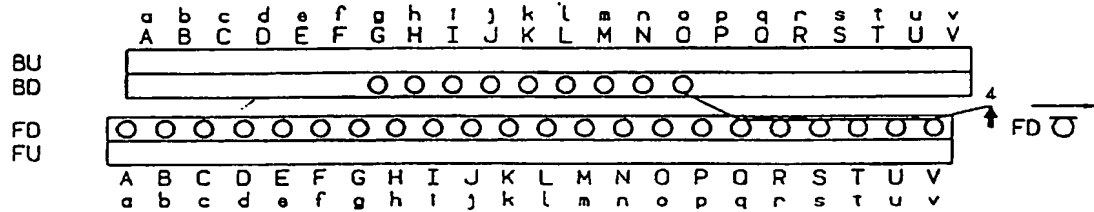


Fig. 318

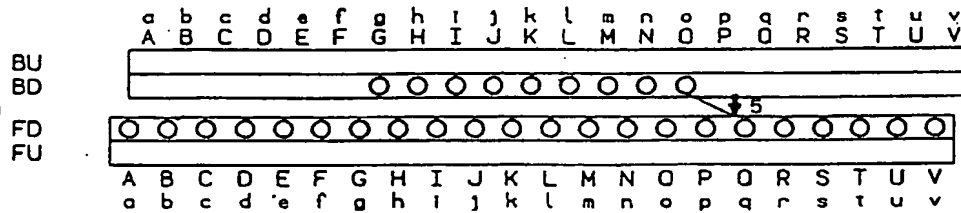


Fig. 319

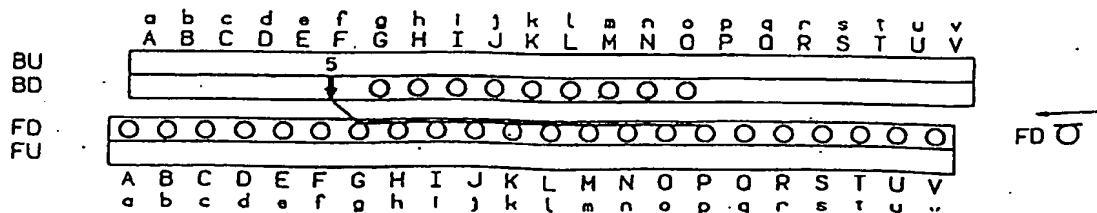


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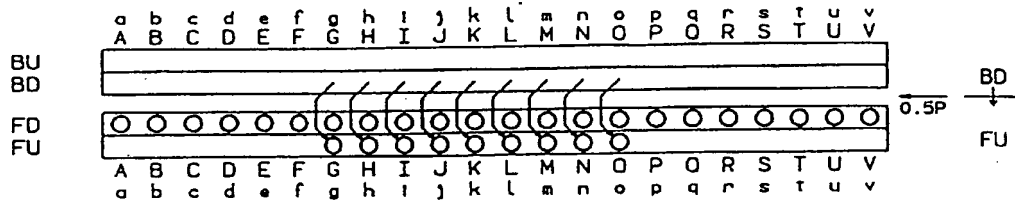


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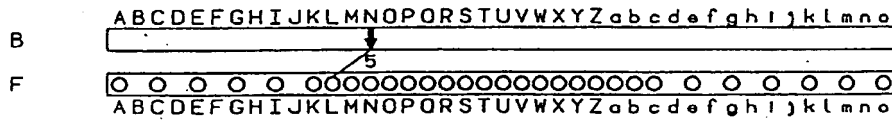


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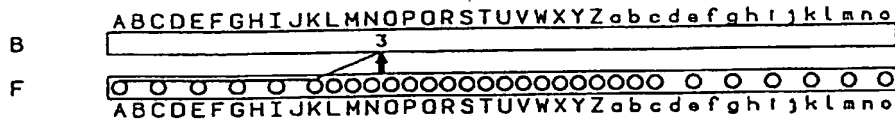


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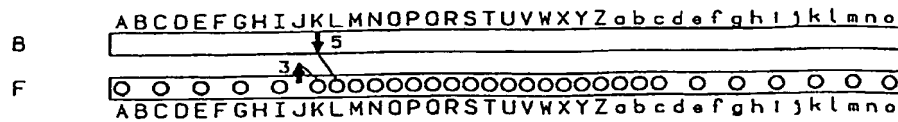


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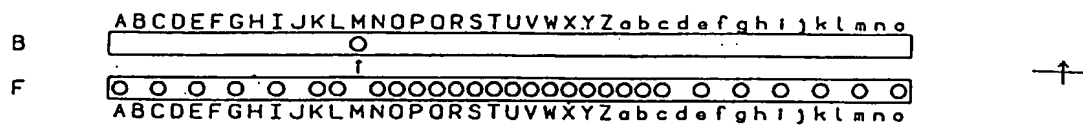


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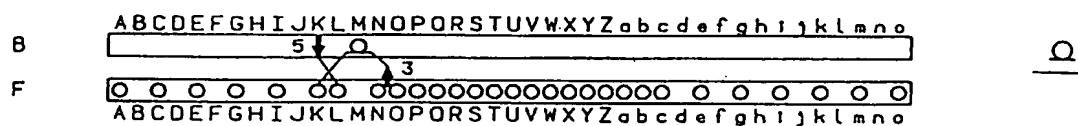


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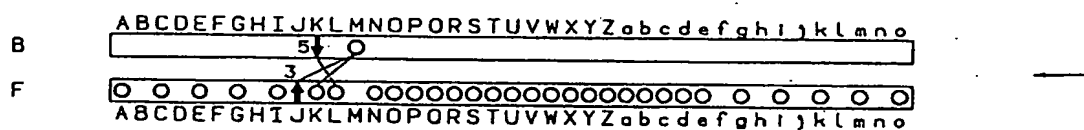


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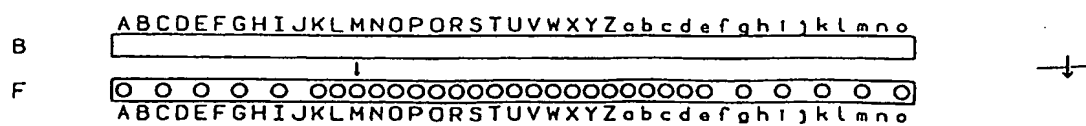


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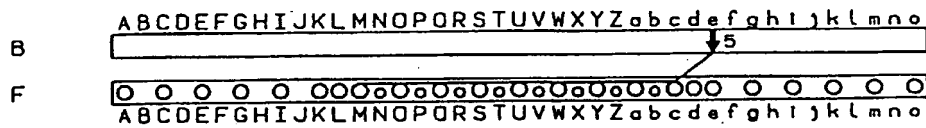


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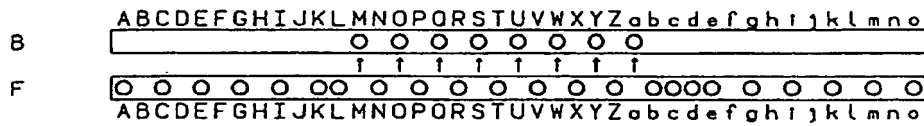


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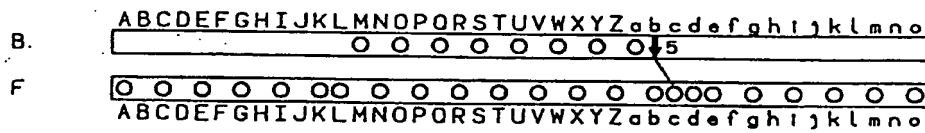


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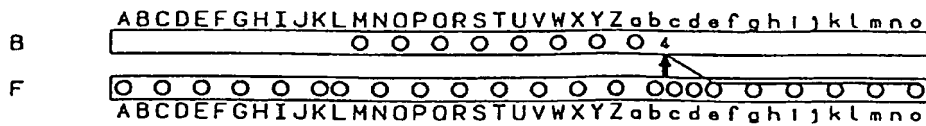


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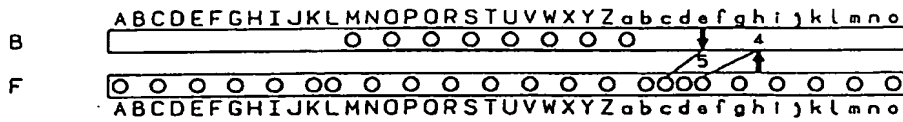


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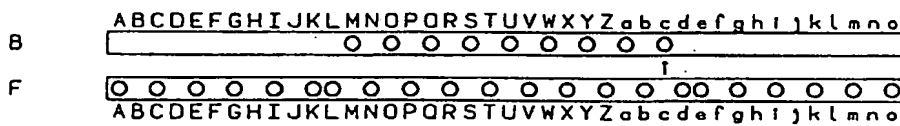


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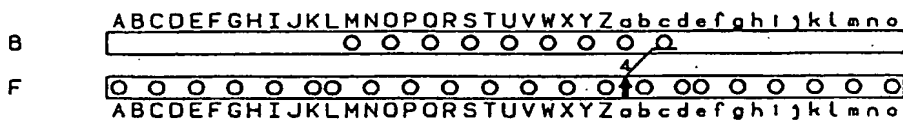


Fig. 335

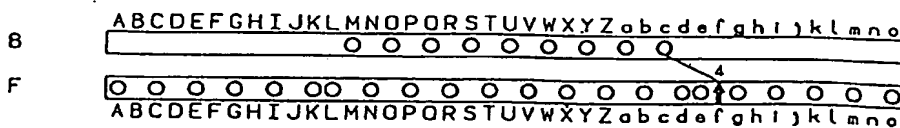
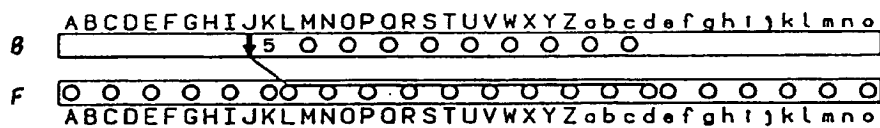
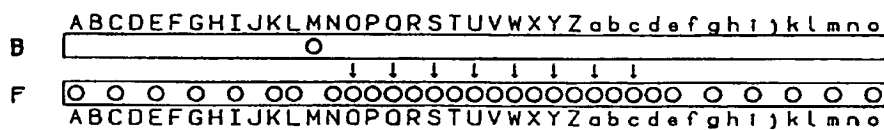


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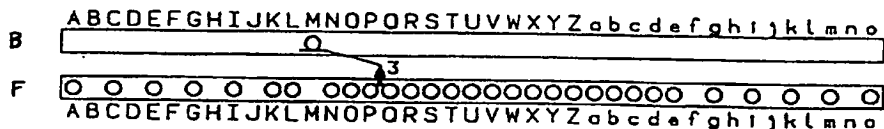
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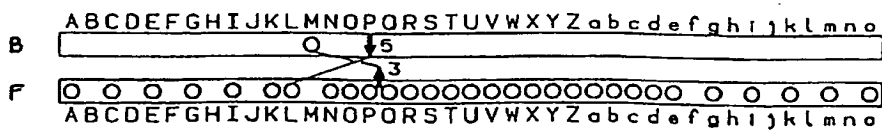
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Fig. 338



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Fig. 339



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Fig. 340

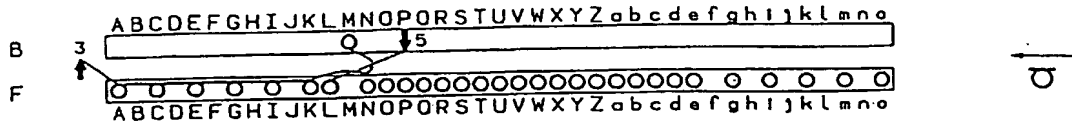


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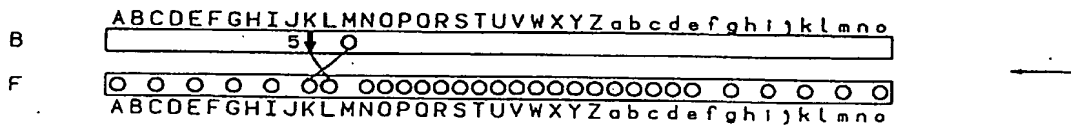


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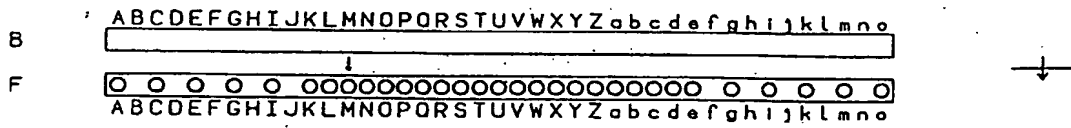


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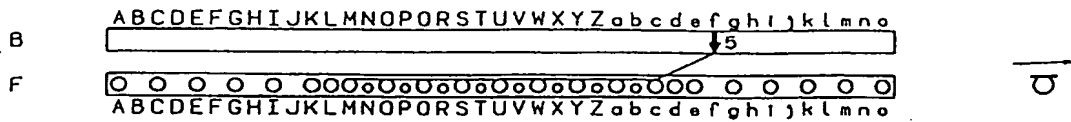


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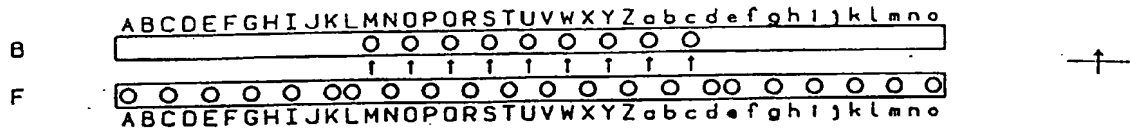


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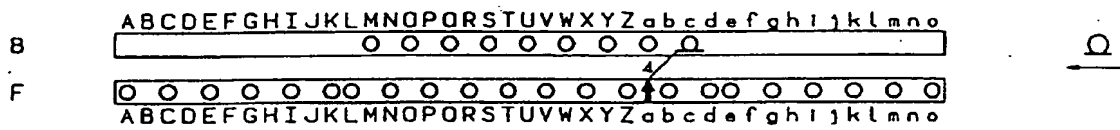


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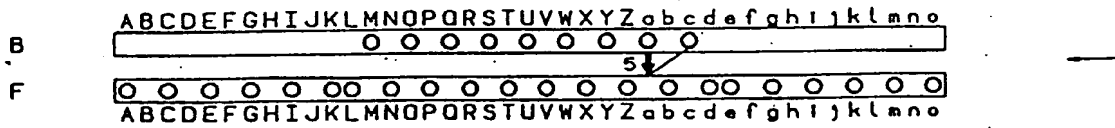


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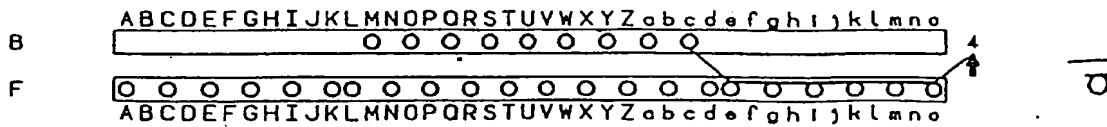


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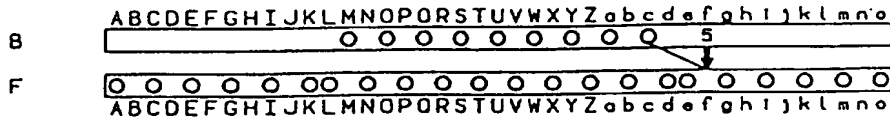


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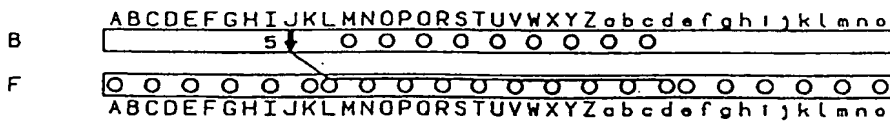


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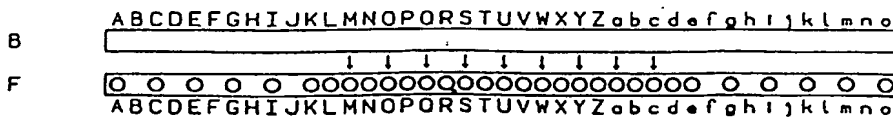


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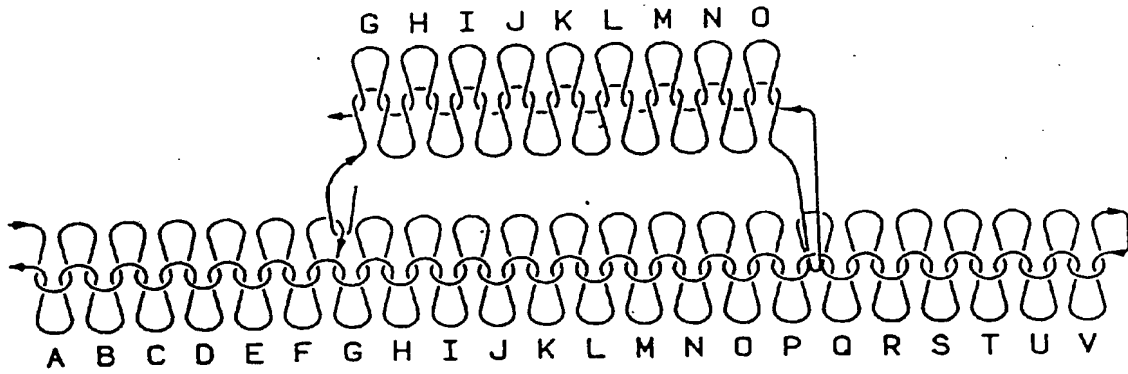


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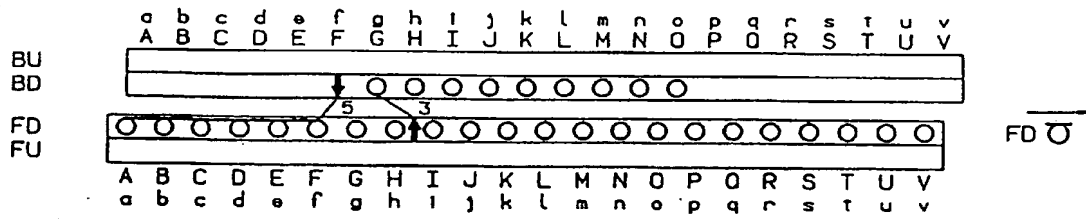
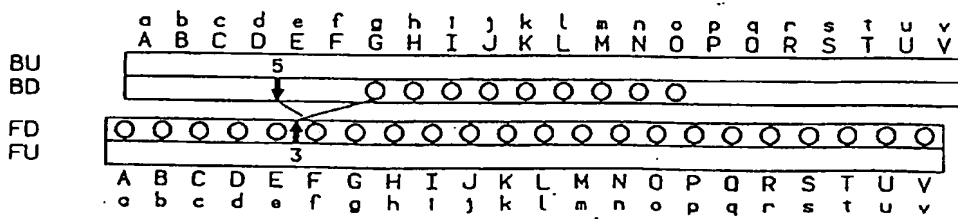


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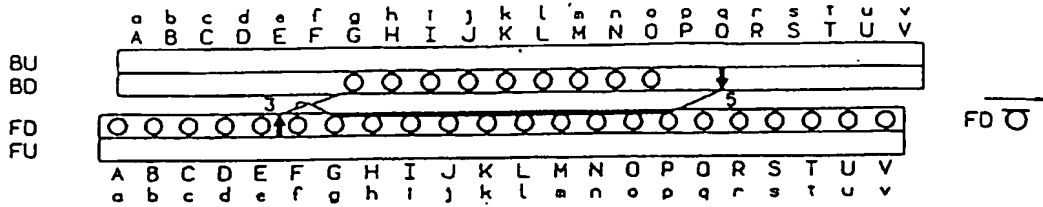


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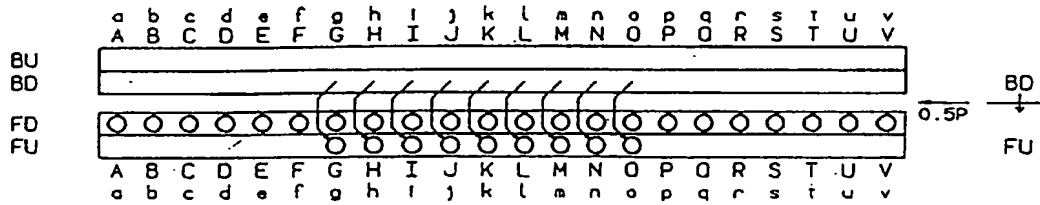


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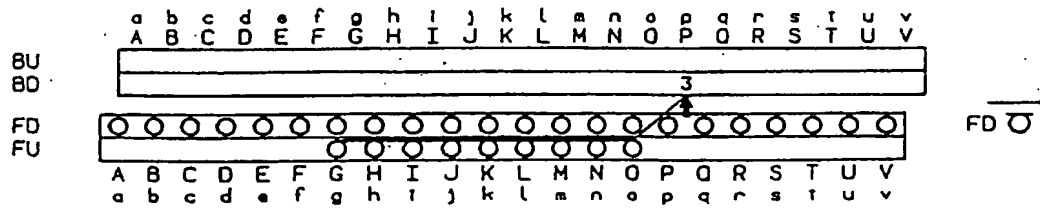


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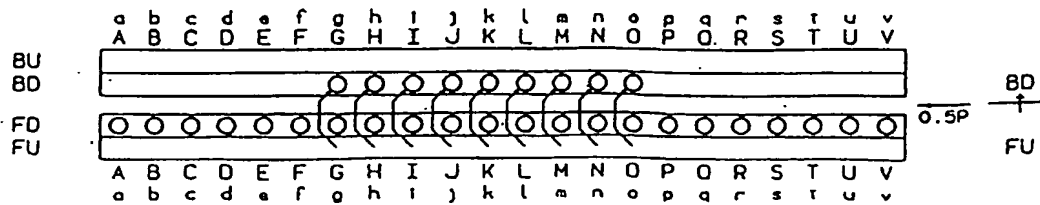


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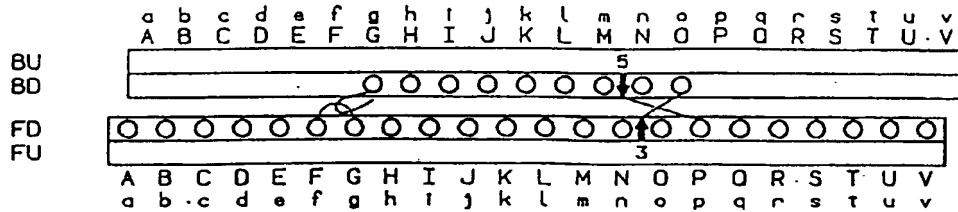


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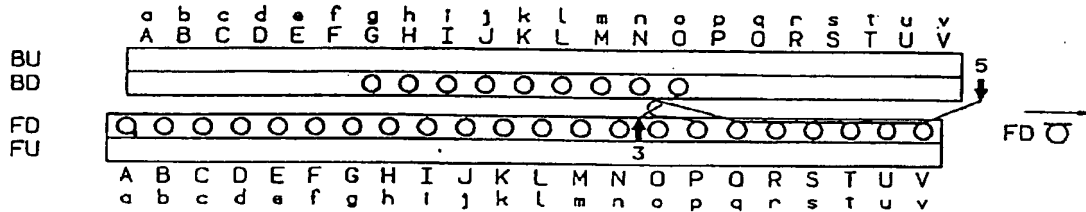


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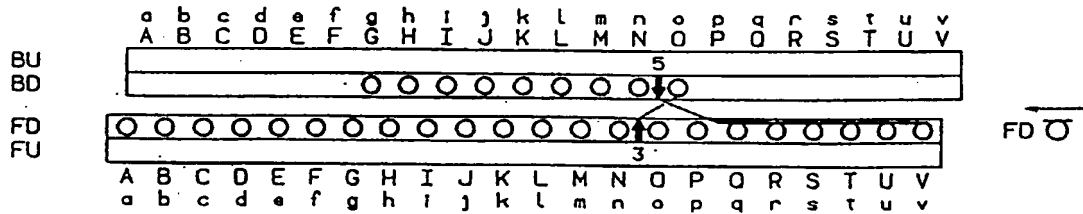


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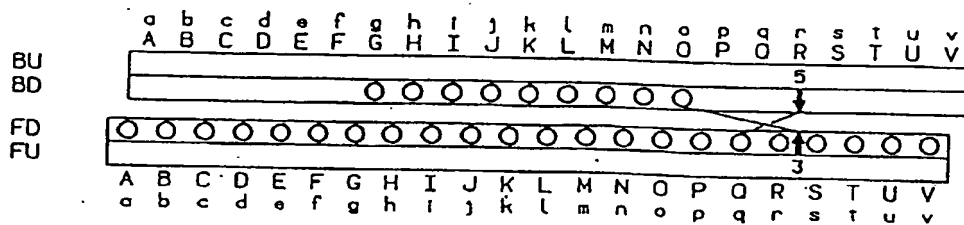


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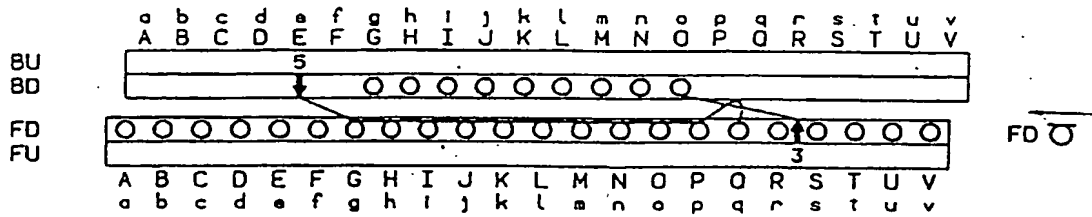


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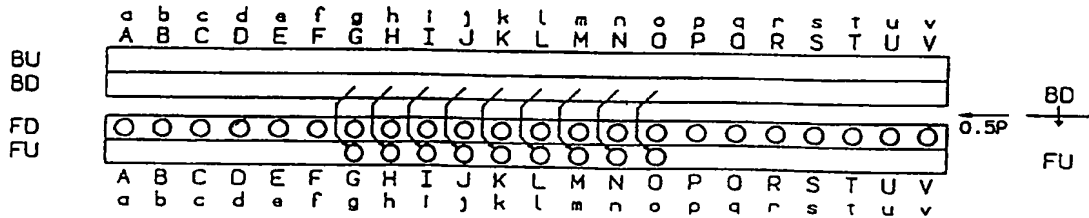


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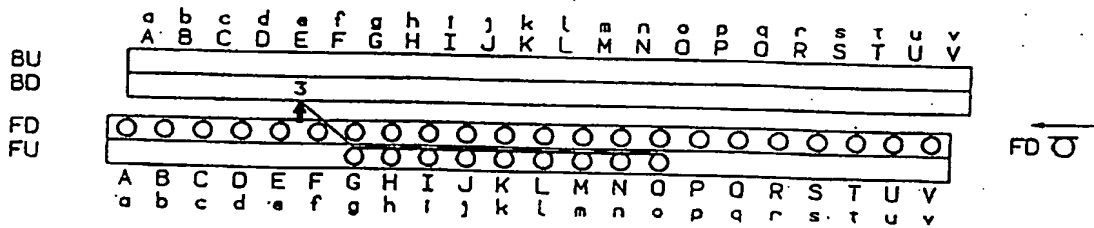


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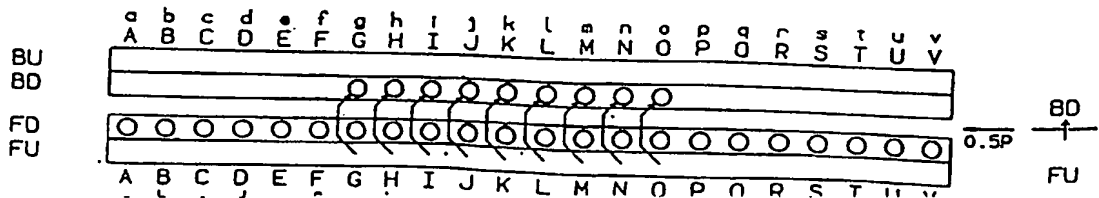


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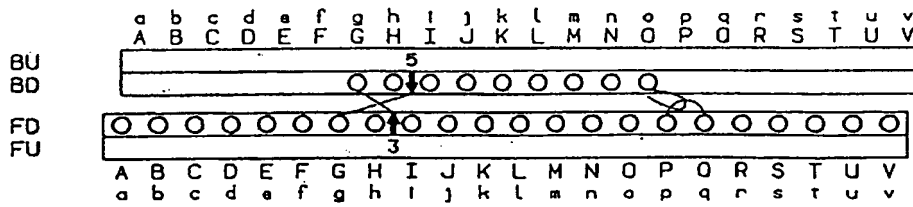


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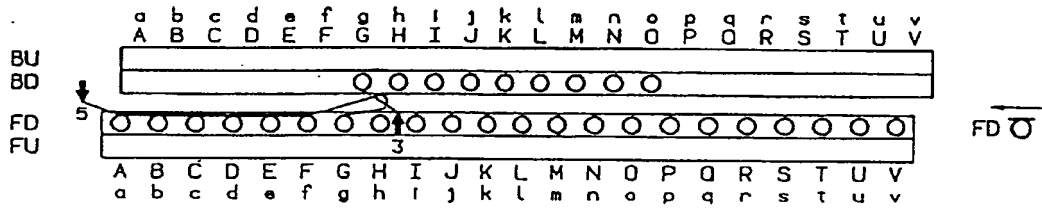


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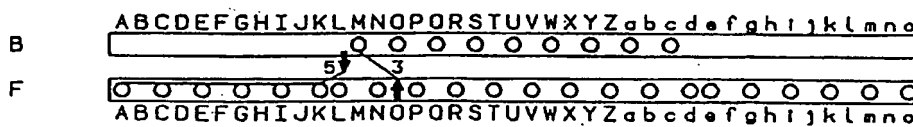


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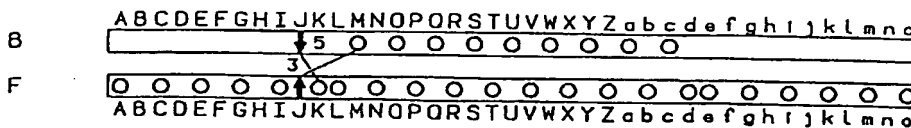


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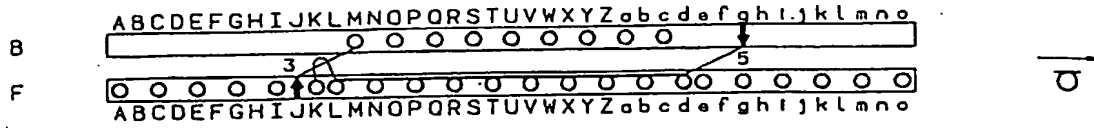


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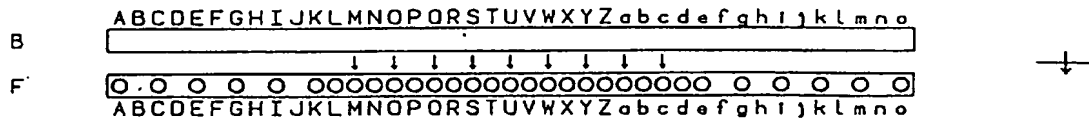


Fig. 372

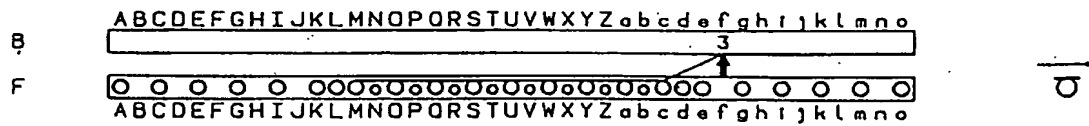


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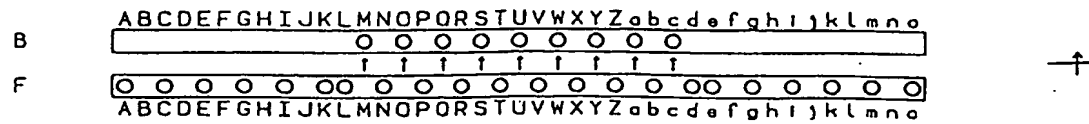


Fig. 374

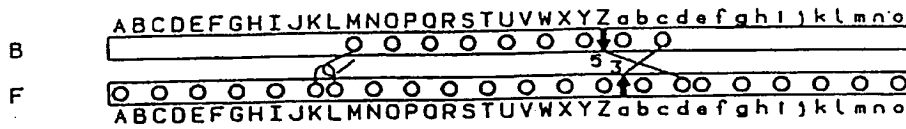


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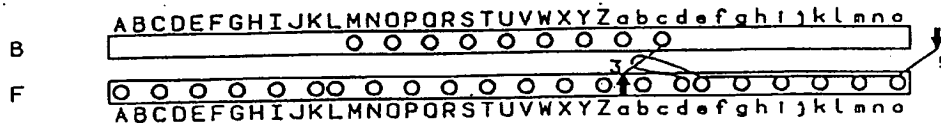


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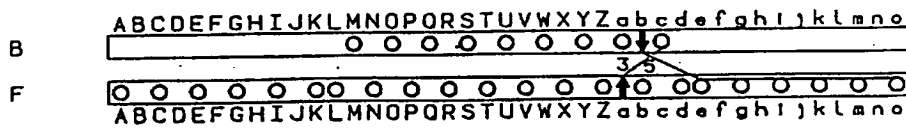


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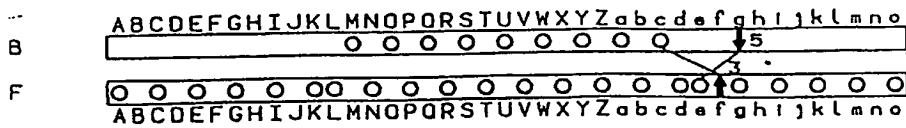


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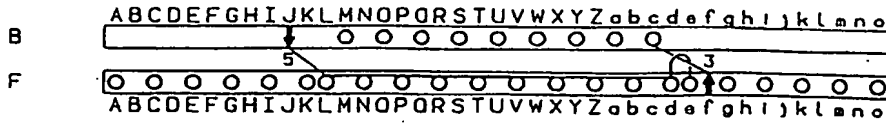


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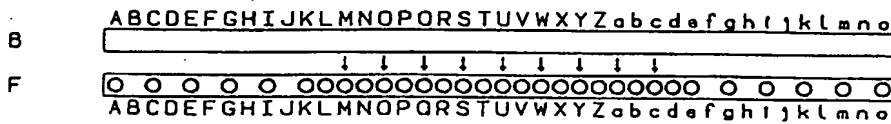


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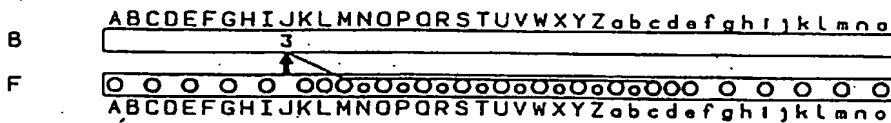


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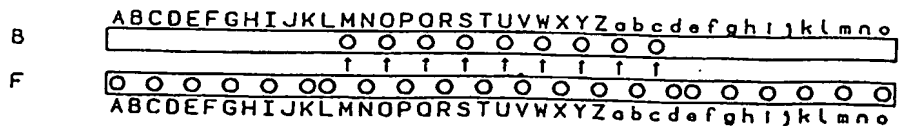


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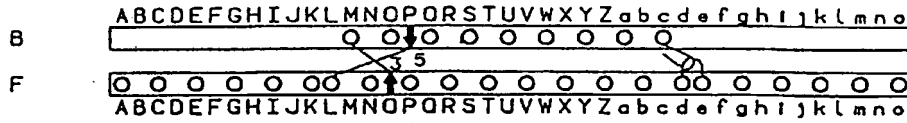


Fig. 383

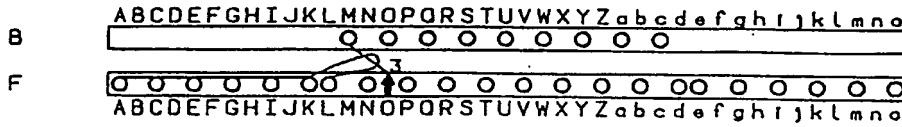


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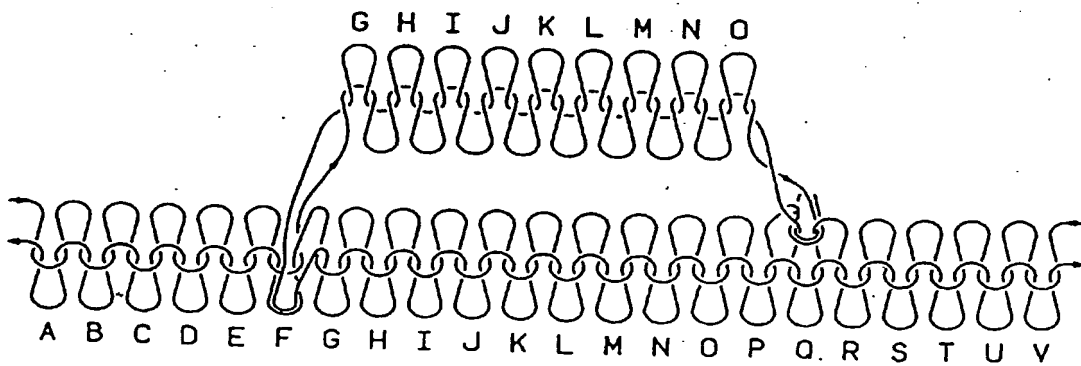


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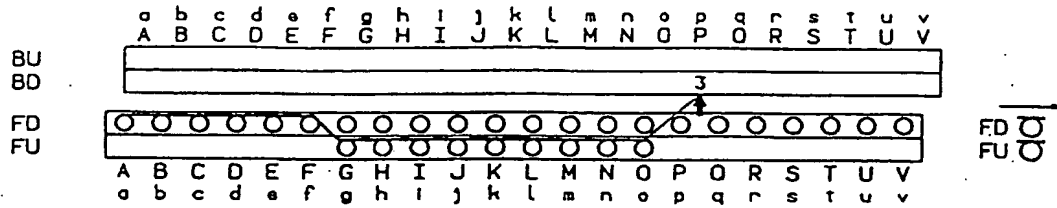


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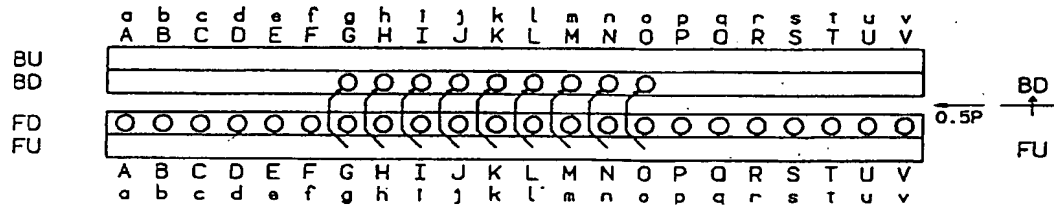


Fig. 387.

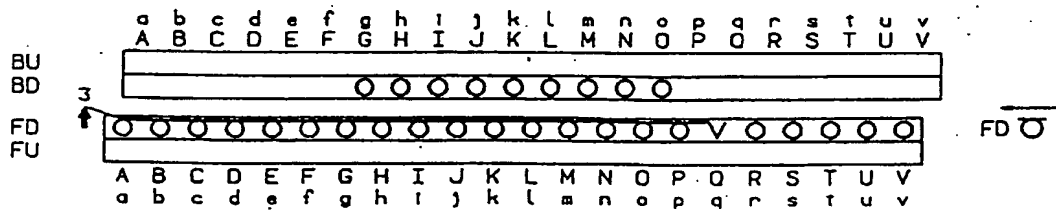


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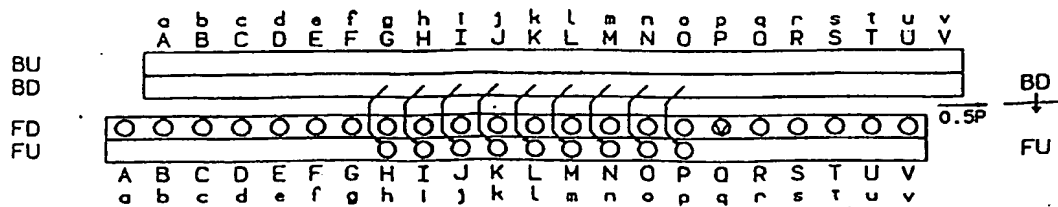


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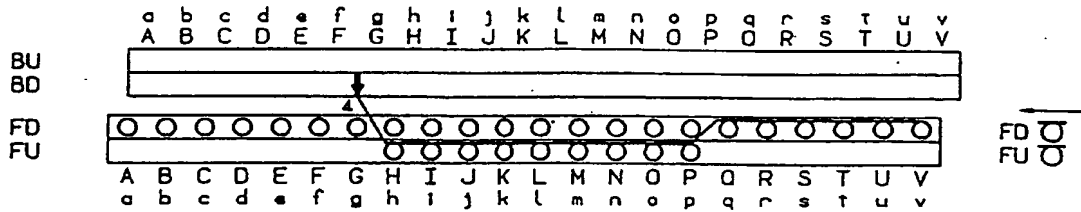


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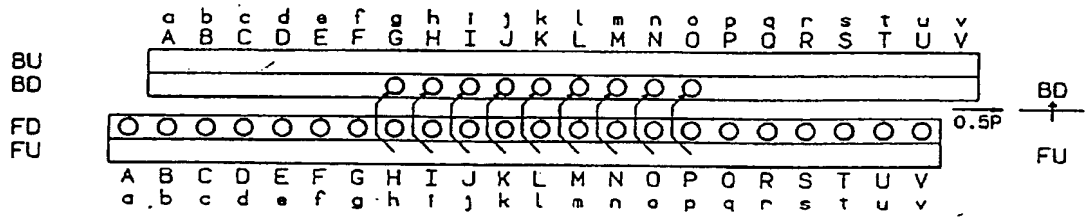


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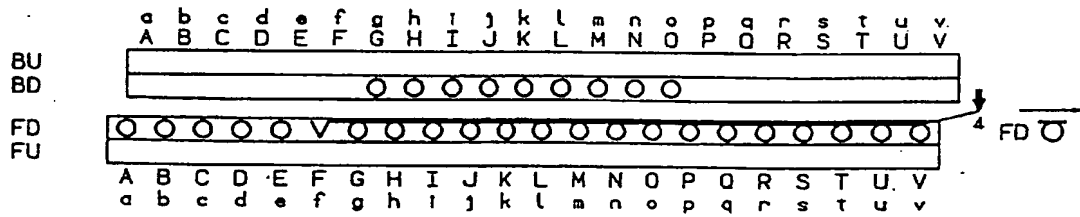


Fig. 392

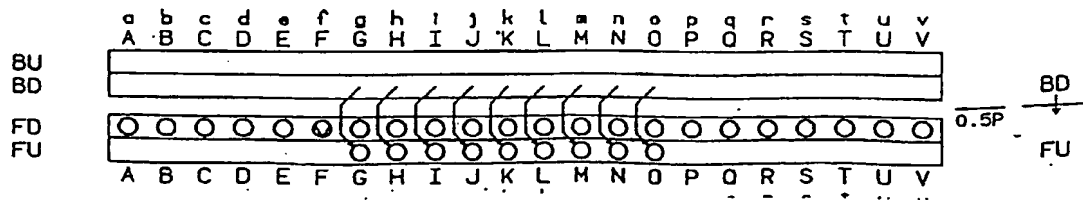
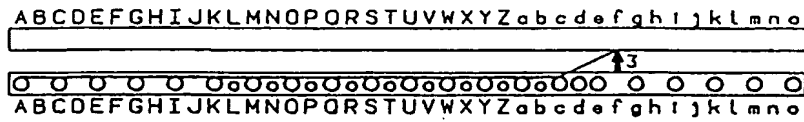
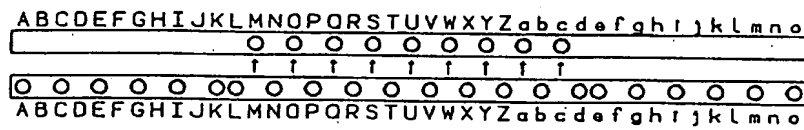


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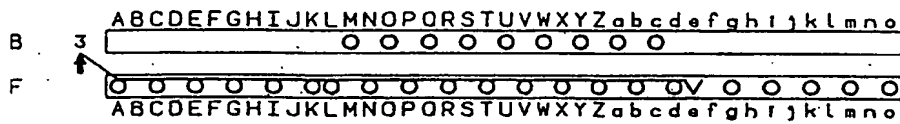
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Fig. 394



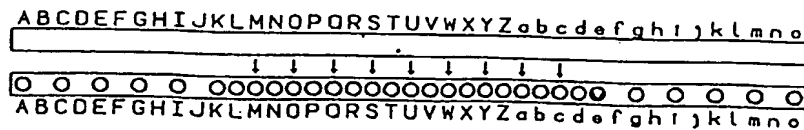
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Fig. 395



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Fig. 396



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Fig. 397

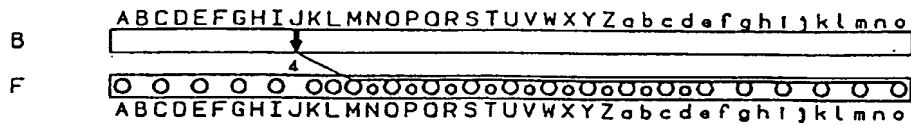


Fig. 398

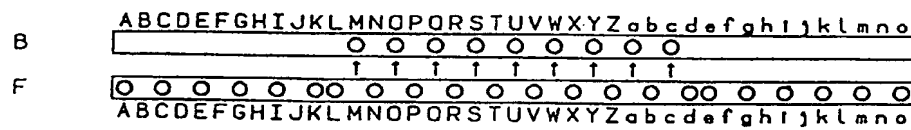


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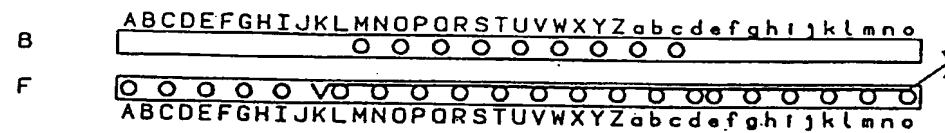
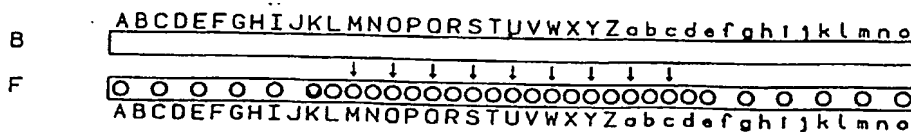


Fig. 400





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 92 30 3050

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	US-A-1 572 434 (KAISER) * page 1, line 95 - page 2, line 72; figures 1-12 *	1,9	D04B1/22 D04B1/24
A	US-A-4 040 275 (CASTELLO) * column 6, line 51 - column 7, line 22; figures 8-15 *	1,6,9	
A	DE-C-301 511 (VON TETTENBORN)		
A	US-A-3 602 914 (CASTELLO)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			D04B A41D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15 JULY 1992	Examiner VAN GELDER P. A.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : member of the same patent family, corresponding document</p>			

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